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Project title **Deeside Crossing**

Job number

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Date

29 March 2021

Subject **Deeside Crossing Directional Drilling - Waste Assessment**

1.1 Introduction

The proposed scheme is located near Connah's Quay in Deeside, Flintshire, North Wales.

The scheme proposals are presented on **Figure 1** and are summarised below.

DCWW propose to install a new water main, using directional drilling, beneath the estuary of the River Dee, North Wales.

The drilling will extend to a depth of ~25m, for an approximately length of 1km under the River Dee. The drilling will also pass through a historic landfill and beneath a protected salt marsh to the south of the River, and beneath a pond (historic former settlement lagoon), and through land owned by TATA steel to the North of the River, where the pipeline terminates and is connected to the existing water mains.

It is currently undetermined where the drilling will start and finish, however recent correspondence and Figure 1 indicates that it will start in an area of grassland/football pitches (historic landfill site) to the south of the river and will extend and terminate in the land owned and controlled by TATA steel (to the north of the river) where it will meet an existing water main.

It is anticipated the proposed works will result in the generation of surplus subsurface materials from the drilling process, which will require reuse onsite or off-site disposal.

In order to confirm the potential off-site disposal options for material arisings as part of the works, the soil chemical analyses results obtained during recent ground investigations at the site have been assessed in accordance with current waste management guidance, the European Waste Catalogue (EWC) and guidance from WM3 (Ref. 1).

1.2 Information sources

Information and data used within this assessment has been obtained from the following previous reports which should be read in conjunction with this report:

- Geo-Environmental Desk Study: Dee Crossing Tunnel Diversion, Arcadis Consulting (UK) Ltd, January 2018. (Ref. 2)

- Dee Crossing – Tunnel Diversion, Factual Report on Ground Investigation, Report No. PN173686, Geotechnics Ltd, dated April 2018 (Ref. 3)
- Dee Crossing - Tunnel Diversion Geo-Environmental and Geotechnical Interpretative Report Arcadis Consulting (UK) Ltd, April 2018 (Ref. 4)

1.3 Ground Investigation

An intrusive ground investigation was undertaken by Geotechnics Ltd. The site works were completed in two phases due to land access restrictions on parts of Tata Steel land.

The two phases comprise the works as follows:

- The **Phase 1** ground investigation was carried out between 22nd August and 18th September 2017 and comprised nine (9 No.) cable boreholes (BH01A, BH01B, BH02A, BH02C, BH03A, BH03B to BH03C (South of the river) and BH06 and BH07 (North of the river) and two (2 No.) trial pits (TP05 and TP06 - North of the River).
- The **Phase 2** ground investigation was carried out between 15 December 2017 and 12 January 2018 and comprises five (5 No.) hand dug trial pits (HDP01 to HDP05 –North bank of the River), one (1 No.) cable percussive borehole; BH04 and two dynamic sampler boreholes; WSTP03 and WSTP04 – all North of the River in the location of the historic settlement lagoon.

The exploratory hole records are included within the Geotechnics Ltd factual report (Ref. 3).

The location of the excavations is shown on **Figure 1**.

As part of the ground investigation soil samples were obtained for geotechnical and geoenvironmental laboratory analysis, as further discussed in Geotechnics Ltd factual report 2018 (Ref. 3). Groundwater and surface water sampling were also undertaken as part of the ground investigation but has not been discussed further within this waste assessment report.

Geoenvironmental soil samples were obtained and analysed for; Metals, pH, Total Petroleum Hydrocarbons (TPH CWG) – Aliphatic and Aromatic Split, BTEX, Chromium III and VI, SVOCs and VOCs, Speciated Phenols, Moisture Content, Speciated PAHs and Cyanides. Waste Acceptance Criteria analysis (WAC analyses) was not undertaken as part of the ground investigation.

Asbestos screening and quantification were also undertaken in selected samples.

Leachate testing was also undertaken on selected samples and comprised, metals, pH, cyanide and PAHs (but has not been discussed further within this waste assessment report).

Photo-ionisation detection (PID) tests were also undertaken during the drilling of the boreholes and the excavation of the trial pits by testing the headspace of the environmental soil samples taken, with the results of the PID tests presented on the trial pit and cable percussive borehole records within the factual report (Ref. 3).

A Ground Penetrating Radar (GPR) survey, comprising a number of transects across the infilled lagoon (noted to be of a former heavy metal settling lagoon) was undertaken by Terradat in two phase in August and in December 2017. The results of the GPR survey, are discussed in the Geo-Environmental and Geotechnical Interpretative Report Arcadis Consulting (UK) Ltd, April 2018 (Ref. 4) and provided in Appendix G. The GPR sections indicate that the lagoon sediments comprise sand and gravel-rich overburden (approximately 3 to 4m thick) accumulated from the settling process. Clay-rich material (inferred to be natural Tidal Flat clay deposits by Terradat) are indicated to be present at the base of the lagoon from ~3.5mbgl (thickness of this material is was determined).

Review of GPR results with exploratory hole information from the historic lagoon; WSTP03, WSTP04, and BH04 has been undertaken. WSTP03 and WSTP04 were terminated at 3mbgl within Alluvial Sand deposits (no clay rich materials were identified).

BH04 recorded coarse loose Made Ground sands with ash and brick to 3mbgl. Alluvial Sand (described as loose to medium dense silty fine to medium sand) were present beneath from 3-5mbgl. The borehole was terminated at 19mbgl; within the Alluvial Sand deposits. Notably no clay rich materials were identified.

1.4 Encountered ground conditions

Detailed descriptions of the strata encountered along the proposed tunnel alignment are presented in the exploratory hole records contained within the Geotechnics Ltd factual report (Ref. 3) and are further discussed in detail in the Geo-Environmental and Geotechnical Interpretative Report Arcadis Consulting (UK) Ltd, April 2018 (Ref. 4).

A summary of the ground conditions is provided in Table 1 below:

Table 1 Summary of ground conditions at Deeside Crossing Site (extracted from Reference 4).

Strata	Description	Thickness Range (m)	Base of Stratum (mbgl)
Topsoil	Topsoil was encountered within all of the exploratory holes with the exception of BH04, WSTP03 and WSTP04 and described as a dark brown silty fine to medium sand with some rootlets. Boreholes BH03A, BH03B and BH03C in the salt marsh area on the southern side of the River Dee proved salt marsh grass over dark brown silty peaty fine to medium sand with some rootlets, which ranged in thickness between 0.50m and 1.00m.	0.10 to 1.00	0.10 to 1.00
Made Ground [Southern side of the River Dee]	Made Ground and Landfill Waste was encountered within all of the exploratory holes undertaken on the southern side of the River, with the exception of boreholes BH03A, BH03B and BH03C located within the salt marsh. The material was encountered as an intermixed granular and cohesive Made Ground. Granular Made Ground comprises loose to medium dense silty fine to coarse gravel. Cohesive Made Ground comprises firm friable slightly sandy gravelly clay. Both the granular and cohesive Made Ground included brick, glass, metal, plastic, concrete and timber fragments. Boreholes BH02A and BH02C encountered possible Le Blanc Process Alkali Waste – Galligu. <i>The Le Blanc chemical process, converted common salt into soda ash using sulphuric acid, limestone and coal. The most significant waste product from this process was the highly toxic, caustic Galligu, principally calcium sulphate, but containing numerous other heavy metals.</i>	1.30 to 3.60	1.30 to 3.60
Made Ground [Northern side of the River Dee]	Made Ground was encountered within all of the exploratory holes undertaken on the northern side of the River Dee, with the exception of hand excavated trial pits HDP01 to HDP05. In general, the material was described as a Granular Made Ground.	2.40 to 3.40	2.40 to 3.40

	Boreholes BH04, WSTP03 and WSTP05 were undertaken within the infilled lagoon and encountered granular Made Ground to a maximum depth of 3.00m bgl. The granular Made Ground was described as a loose silty fine to coarse sand with ash and brick fragments. Boreholes BH06 and BH07 and machine excavated trial pits TP05 and TP06 undertaken to the north of River Road to depths of between 2.40m (BH06) and 3.40m bgl (BH07). The granular Made Ground was described as a very loose to medium dense gravelly sandy silt and fine to coarse sand of ash and burnt shale fragments. Gravel is angular to subangular fine to coarse plastic, metal, timber, concrete and brick fragments. Trial pit TP06 encountered a grey silty fine sand with bands of silty peat, the remains of a reinforced concrete structure and a strong hydrocarbon odour between 0.30m and 2.90m bgl.		
Marine (Tidal Flats) Deposits	Marine (Tidal Flats) Deposits referred to as Alluvial Sand and Alluvial Clay was encountered within all of the exploratory holes with the exception of borehole BH02B and hand dug inspection pits HDP01, HDP02 and HDP04. The Marine (Tidal Flats) Deposits were generally described as a medium dense to dense grey silty fine to medium SAND with occasional bivalve shell fragments. Hand dug inspection pit HDP05 encountered a soft greyish brown CLAY between 0.10m and 0.30m bgl, with the overall thickness not proven. Whilst, borehole BH01A encountered a band of firm brownish grey slightly sandy silty CLAY between 2.90m and 3.50m that then graded into a very silty fine sand and very sandy silt to 4.00m bgl. Furthermore, borehole BH03A noted occasional pockets of clay within the Marine Deposits between 9.50m and 9.95m bgl.	12.30 to 20.70	15.70 to 24.10
Glacial Till	Glacial Till was encountered within boreholes BH01A, BH01B, BH02A, BH02C, BH03A, BH03C and BH07 as a stiff to very stiff thinly laminated reddish brown slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded fine to medium of various lithologies. Between 24.95m and 27.00m borehole BH07 encountered a band of very dense reddish brown gravelly silty fine to coarse SAND with occasional bands of clay. Gravel is fine to coarse including bivalve shall fragments.	Penetrated to 4.30	Penetrated to 28.00

It should be noted that borehole BH03B was aborted early at 10.50m bgl within the Marine (Tidal Flats) Deposits, as the Explosive Ordnance Detection (EOD) Engineer detected a very strong ferrous Object and recommended termination of the BH.

1.4.1 Sampling and testing

A total of 31no. soil samples were obtained during the two phases GIs and submitted for dry weight chemical analysis (as described above in Section 1.2) at the Exova Jones Environmental laboratory.

The samples were also subject to asbestos screening and asbestos quantification analyses if asbestos fibres were detected in the initial screen.

Waste Acceptance Criteria analysis (WAC analyses) was not undertaken as part of the ground investigation.

31no soil samples were obtained and analysed during the ground investigations. These comprised:

- 6no Topsoil samples
- 15no Made Ground samples
- 10no Natural ground samples (Tidal Flat deposits comprising Alluvial sands and clay)

Notably, review of the Arcadis 2018 Waste Assessment (Ref 4) indicates that only 20no samples were analysed as part of the assessment.

2 EWC Code Classification

On the basis of the materials encountered during the ground investigation and the proposed construction depth, and in accordance with the European Waste Catalogue (EWC) and guidance from WM3 (Ref. 1), the materials encountered and likely to be excavated have been classified using the following EWC codes:

17 05 03*: Soil and stones containing dangerous substances (mirror hazardous entry)

17 05 04: Soils and stones other than those mentioned in 17 05 03 (mirror non-hazardous entry)

Preliminary assessment of the dry weight analyses results is required in order to determine whether the materials are non-hazardous or contain hazardous properties.

2.1.1 Model Inputs

Moisture Correction

A review of the chemical analyses results as received from the laboratory indicate that all results have been reported in dry weight form.

On account of this, the Dry Weight Moisture Content correction method has been applied to the results as per the Waste Classification Report (attached to this document).

Notably, review of the Arcadis 2018 Waste Assessment (Ref 4) indicates that no moisture correction was applied as part of the assessment which resulted in one additional hazardous classification BH01A 1.00-1.10mbgl with a TPH concentration of 1402mg/kg. However, when the moisture correction is applied; due to elevated moisture within this sample (44.8%) the converted concentration is less than the 0.1% hazardous waste threshold and the sample is classified as non-hazardous. However this change in class, does not significantly change or impact on the overall assessment and conclusion of the waste assessment report.

Hexavalent Chromium

28no of the 31no analysed soil samples were analysed for hexavalent chromium.

No hexavalent chromium was detected in the 28no samples analysed. As such the model has been run omitting chromate compounds (i.e. next worst-case compounds reviewed).

Hydrocarbon Analyses

Elevated hydrocarbon concentrations have been identified across the site; with concentrations ranging from <LOD to 228,537mg/kg.

The most elevated concentrations recorded are associated with the historic settlement lagoon on the TATA site; north bank of the River Dee.

Olfactory evidence of contamination (strong hydrocarbon odours) was noted in two investigation holes during the two phases of ground investigation across the site:

- TP06 (in Made Ground between 2.3m and 2.7m bgl at the north riverbank- TATA land in an area of former buildings). However, notably a review of PID values indicate a low value of 6.7ppm and no elevated hydrocarbon concentrations were recorded from review of chemical analyses obtained from the Made Ground sampled between 0.3 and 2.5mbgl (TPH concentration of 131mg/kg)
- Olfactory evidence of contamination was also noted within WSTP04 (in Alluvial Silts within the pond/historic settlement lagoon, north of the River, at a depth of between 0.05m and 0.6m bgl) which also corresponded to a PID value of 296ppm. Very elevated concentrations of hydrocarbons were also identified in chemical analyses of the sampled Made Ground from 0.1-0.5mbgl; 228537mg/kg.

No free phase product was observed or recorded in the exploratory holes whilst drilling.

The majority of the exploratory holes exhibited low PID readings on headspace analysis of Made Ground samples with the exception of the following samples:

- BH01A (2.5-2.8m bg) – 127 ppm (historic landfill – South of River– TPH concentration 2804mg/kg)
- BH6 (1.2-1.7m bgl) – 43 ppm (north Riverbank – TPH concentration 165mg/kg)
- WSTP04 (0.1-0.5m bgl) – 296 ppm (Historic settlement lagoon North of River -TPH concentration 228537mg/kg)

A review of the site history and information provided in the Geo-Environmental Desk Study (Ref. 3) and Geo-Environmental and Geotechnical Interpretative Report (Ref. 4) indicates that there are no specific records or evidence of historical fuel spills or fuel storage, etc. within the scheme area that may have impacted the subsurface. It is possible that fuel leaks/spills from vehicles using the roads that cross the scheme maybe likely, although such spills or leaks are not anticipated to have significantly impact the subsurface giving hardstanding at road surfaces preventing vertical migration of such contaminants.

South of the River Dee, wastes fuels and oils and hydrocarbon contaminated materials within the historic landfill would be considered the main sources of hydrocarbon contamination to the subsurface.

Additionally, to the north of the River Dee contamination as a result of the historic metal lagoon settlement processes within the historic lagoon on the TATA site, would be considered another discrete source of hydrocarbon contamination; especially given the elevated concentrations recorded within this location.

A review of the TPH and PAH data for the site has been undertaken to further analyses the source of the hydrocarbon contamination recorded.

PAH double ratio plots have been produced and reviewed in order to review the source of the PAHs recorded using benzo(a)anthracene:Chrysene and Fluroanthene:Pyrene ratios.

Review of the PAH double ratio plot data indicates that the most likely source of the PAHs recorded are coal derived combustion products (pyrogenic sources); coal tar, creosotes, and coal ash.

A review of the TPH species data has also been undertaken. This has indicated that heavier chains are most dominant for both the aliphatic (>C21-C35) and aromatic compounds >EC16-EC35). Again, this would suggest that the source of the TPH concentrations recorded are the heavy fuel and motor oils; and that the TPH data is not representative of diesel and petrol fuels.

As such, based on the information above, it is considered that the recorded concentrations of the hydrocarbon concentrations recorded are not indicative of diesel or petrol fuels, and as such the box for confirming that TPH has NOT arisen from diesel or petrol has been ticked within the HazWasteOnline™ model.

3 Waste Classification

3.1 Dry-weight waste classification

The results of the dry weight analyses obtained as part of the investigation have been assessed using the HazWasteOnline™ computer package. This software allows an accurate classification of materials as hazardous or non-hazardous on the basis of the concentrations of “worst case compounds” contained within the samples.

Once it is determined as to whether the materials are hazardous or non-hazardous, the results of WAC leachate analyses are compared to Waste Acceptance Criteria for the relevant landfill class (inert, stable non-reactive hazardous or hazardous).

The results of the initial dry weight assessment are summarised below in **Table 2**.

The output of the HazWasteOnline™ model report is included in **Appendix 1**.

3.1.1 Asbestos

Asbestos screening was undertaken on a total of 22no samples comprising:

- 20no samples of Made Ground,
- 1no sample of Topsoil and
- 1no sample of natural Alluvial Sand.

Of the 22no samples analysed, 6no. were subject to asbestos quantification analysis following a positive screen for chrysotile fibres (<0.1% asbestos);

- 3no were obtained south of the River; comprising one sample of made ground from BH01A historic landfill and BH02C south Riverbank, and also one sample of topsoil from the historic landfill south of the River Dee (BH01B).
- A further 3no positive screen samples were obtained from the North bank (TP5 and TP6) and included one sample of natural strata from (BH06).

The asbestos results are provided in **Table 2** with raw data available in the Geotechnics Ltd factual report (Ref. 3).

All quantification analysis recorded asbestos concentration of <0.002% mass (Gravimetric & PCOM Total).

3.1.2 Hazardous Classification

As shown in **Table 2**, a total of 9no samples have been classed as hazardous:

- Two samples of Made Ground from the historic landfill at the south bank of the River Dee at depth of 3.6 mbgl,
- Seven samples from the north of the River Dee comprising; two Made Ground samples to a depth 2.4m within the TATA land, two Made Ground samples within the pond / historic settlement lagoon, and three natural Alluvial sand and silts samples from the pond / historic settlement lagoon.

A summary of the Hazardous classifications detailed within Table 2 is provided in Table 3 below:

Table 3 Hazardous classifications

Determinand (laboratory concentrations)	Depth (m)	Depth of strata (m)	Location of sample	Strata type / log description	HWOL Classification Result	Hazardous on account of hazardous properties:
BH01A[2]	2.50-2.80	2.9	South Bank - football ground - Historic Landfill (open cut)	MADE GROUND: Black slightly gravelly very sandy silt. Gravel is angular fine to coarse of brick fragments.	Hazardous	HP 14
BH01B[2]	2.00-2.10	3.6	South Bank - football ground. Historic Landfill- (open cut)	MADE GROUND: Loose dark brown silty angular fine to coarse gravel including glass, metal, plastic and timber fragments (Landfill Waste).	Hazardous	HP 14 HP 7, HP 10, HP 11, HP 3(i)
BH06	1.00	2.4	North Bank TATA Steel land	MADE GROUND. Loose becoming very loose black fine to coarse sand of ash and burnt shale fragments.	Hazardous	HP 14
TP05	1.00	1.1	North Bank TATA Steel land	MADE GROUND: Orangish brown gravelly silty fine to coarse sand with a medium to high cobble content of bricks. Gravel is angular to subangular fine to coarse of concrete and brick fragments.	Hazardous	HP 14 HP 7, HP 11, HP 3(i)
BH04	0.10	0.1	North Bank- Pond /historic lagoon	MADE GROUND: Orangish brown silty fine to coarse sand. Sand includes ash and brick fragments.	Hazardous	HP 14 HP 4, HP 5, HP 7, HP 10, HP 11, HP 3(i)
BH04[2]	1.00	1.9	North Bank- Pond /historic lagoon	MADE GROUND: Grey very silty fine sand. Between 1.20-1.65m, clayey.	Hazardous	HP 14 HP 4
BH04[3]	4.00	5	North Bank- Pond /historic lagoon	Loose to medium dense orangish grey and brown silty fine SAND. [ALLUVIAL SAND]	Hazardous	HP 14
WSTP04	0.10-0.50	0.6	North Bank- Pond /historic lagoon	Grey organic sandy SILT with occasional wood fragments. Strong hydrocarbon odour. [ALLUVIAL SILT]	Hazardous	HP 14 HP 5, HP 7, HP 10, HP 11, HP 3(i)
WSTP04[2]	1.20-1.70	2	North Bank- Pond /historic lagoon	Orangish brown silty fine SAND. [ALLUVIAL SAND]	Hazardous	HP 14 HP 4, HP 7,

*A description of all hazardous properties and the determinand concentrations driving each hazardous property is provided in Table 2 and Appendix A (HWOL Report)

HP 14: Ecotoxic

All 9no samples have been classed as hazardous on account of HP14, with most samples having additional hazardous properties including:

- HP 7; Carcinogenic
- HP 11; Mutagenic
- HP 10; Toxic for Reproduction
- HP 5; Specific Target Organ Toxicity (STOT)/ Aspiration Toxicity
- HP 4; Irritant
- HP 3(i); Potentially Flammable

Annex III of the Waste Directive defines HP 14 as: ‘waste which presents or may present immediate or delayed risks for one or more sectors of the environment’

For all 9no samples identified as hazardous, metal concentrations are the driver of the HP14 hazardous property, specifically:

- dicopper oxide; copper (I) oxide
- lead compounds
- zinc sulphate
- nickel sulphate

The concentration limit value (*0.1% for hazardous statement code H410 Aquatic Chronic 1; very toxic to aquatic life with long lasting effects*) was exceeded for all hazardous property HP 14 Ecotoxic in all samples detailed in Table 3 above.

As such, these wastes are therefore classified under the EWC code **17 05 03***, and would be classed as ‘**hazardous waste**’ in terms of waste disposal.

No further review/discussion of remaining hazardous properties is therefore considered necessary (HP 4, HP 5, HP 7, HP 10, HP 11, HP 3(i)).

Full details of each hazardous property and the driving determinands and specific concentration is provided in Appendix A HWOL report for reference.

3.1.3 Non-Hazardous Classification

All remaining 22no samples from across the site, reviewed as part of this assessment have been classified as non-hazardous in terms of waste disposal.

3.1.4 Offsite disposal options

Non-hazardous materials can be disposed of to a non-hazardous landfill without further analysis. However non-hazardous materials, especially the natural strata, may be suitable for disposal at an inert facility, subject to compliance with the Inert Waste Acceptance Criteria (WAC).

Hazardous waste may be suitable for disposal at a hazardous waste disposal facility, subject to meeting the respective waste acceptance criteria (WAC).

As such if landfill is identified as the disposal route for the waste materials arising from the Deeside Crossing site then further sampling and WAC analysis will be required to ensure that the material meets the waste acceptance criteria (WAC) for the landfill identified for disposal.

At present no WAC analysis is known to have been undertaken on the materials that may arise from across the site. This will be required prior to confirmation of offsite disposal options.

3.2 Discussion and recommendations for disposal options per area

Please refer to Figure 2 for details on anticipated materials to be encountered during the works and likely disposal options for these materials.

South Bank - Historic Landfill

It is currently understood that directional drilling will start within the historical landfill within the sports ground on the south side of the River Dee.

A review of health and safety measure and local authority requirements for undertaking such construction works within the historic landfill will be required prior to the onset of any works.

Subsurface materials within this location are considered to be historic landfill waste (comprising loose fine to coarse gravel including glass, metal, plastic and timber fragments to a depth of ~3.6mbgl). These materials would be classified as hazardous in terms of waste disposal. Further WAC analysis would be required to confirm offsite disposal at a hazardous waste facility (as discussed in above).

It is recommended that the landfill waste materials are excavated/open cut, prior to drilling works commencing to allow segregation and appropriate management/ storage and disposal. Such open cut and excavation works would also help prevent draw down/ draw through of such waste into underlying natural strata during drilling (reduce cross contamination of drilling wastes).

The design and construction of the historic landfill itself, especially the integrity of the base of the landfill, will also need further review and consideration prior to excavation works and/or drilling. It is important that measures are in place as to not to compromise any landfill containment systems/barriers, and to prevent the creation of preferential pathways for contaminated landfill leachate and/or landfill gas migration into deeper strata during the directional drilling process.

UXO risk should also be considered /reviewed within this area of the site and also across the wider site area.

North Bank - Pond / historic settlement lagoon

Made Ground and Natural Strata (Alluvial Sands and Silt) within the pond area (historic settlement lagoon) is classified as hazardous in terms of waste disposal on account of elevated concentrations of metals and very elevated TPHs.

However, notably, these materials, although classified as hazardous, are not anticipated to be excavated or encountered during the directional drilling works onsite as shown in Figure 2. Drilling is currently proposed to be in excess of 23m below the base of the historic settlement lagoon.

Additionally, the GPR as discussed in the Geo-Environmental and Geotechnical Interpretative Report (Ref 4) has detailed the presence of a 'clay base' of the historic settlement lagoon. Although not clearly evident in the three investigation holes within the historic pond (as only BH04 extended more than 3mbgl with strata beneath the Made Ground comprising Alluvial sand and silt; Tidal Flat deposits). It would be expected that the Tidal Flat deposits, as inferred from the GPR would act as a barrier to any downward migration of contamination to underlying natural strata, through which the directional drilling is proposed to be located at a depth of ~25mbgl.

North Bank- TATA land exit

As with the historic landfill area on the south bank discussed above, it would be recommended that shallow made ground materials in the exit location for directional drilling are excavated via open cut, prior to drilling works commencing to allow segregation and appropriate management/ storage and disposal of the shallow made ground and natural deposits. Materials in the proposed exit location for directional drilling have been classified as non-hazardous (TP6). However similar Made Ground materials from TP5, ~60m to the west TP6 have been classified as hazardous. As such due to the variable nature of made ground within this area of the site there is a high potential for materials previously not encountered to be excavated as part of the works and mixing of wastes may occur.

Open cut excavation works through made ground at the entry or exit points, prior to directional drilling would help minimise the risk of mixing of waste streams, and prevent cross contamination and would also prevent draw down/ draw through of such waste into underlying natural strata during drilling.

Remaining land on both North and Southbank to be directionally drilled

The current proposal for directional drilling (with the exception of entry and exit points as discussed above) will be predominantly within the Glacial Till (clay) strata at depth of ~25mbgl; as shown in Figure 2.

As such, materials likely to be encountered and excavated as a result of the direction drilling will be natural clay deposits. Notably these materials have not be sampled and analysed as part of the 2017/2018 ground investigations. However, given the depth and composition of these ‘natural’ materials, it would be anticipated that they would be classified as non-hazardous in terms of waste disposal.

However, tunnelling arisings, despite being predominantly within the natural strata, may be subject to inclusions of drilling fluids and or greases.

As such, the drilling ‘wastes’ produced in accordance with the European Waste Catalogue (EWC) may be classified as; **“01 05 drilling muds and other drilling wastes”**.

As discussed in WM3 (Ref1) where the drilling mud/fluid has an oil base, the drilling mud and any associated drilling wastes would be classified under 01 05 05* and are hazardous waste.

Barite or chloride-based drilling muds and any associated drilling wastes are part of a mirror entry and are only hazardous (classified as 01 05 06*) if they display a hazardous property or contain POPs.

A review of the drilling methodology; specifically, any additions of fluids and/or greases or oil during the drilling process will be required to assess what waste classification the drilling muds that arise as part of the works may be.

It would also be recommended that during the works subsequent testing and analysis of the drill arisings (soil dry weight and WAC) are required to confirm disposal options and/ or reuse opportunities.

3.3 Recommendations

Reuse of all excavated materials should be considered in the first instance subject to suitability for the intended re-use; i.e. if found to be geotechnically and chemically suitable, following controlled waters and human health risk assessments (further sampling and analysis maybe required to confirm this as previously discussed).

Off-site disposal at a treatment, recycling or transfer facility should also be considered prior to off-site disposal at Landfill. The operators of such facilities should be consulted prior to removal of excavated materials from site, to confirm acceptance.

Should landfill disposal be deemed the most preferable option, in accordance with current waste management guidance, all materials destined for landfill disposal require pre-treatment, to ultimately reduce the overall volume of materials being disposed. It is anticipated this could be achieved by sorting, and re-use of at least some arisings for pipe bedding/backfill as above, and/or disposal of materials at soil recycling centres or transfer sites.

Disposal at a landfill facility should be considered as a last resort. The operators of the landfills identified for disposal should be supplied with a copy of the chemical analyses results to confirm acceptance prior to removal of the materials from the site.

During construction, if an area of open cut is proposed; the materials should be separated per waste stream and landfill class and stored as separate stockpiles prior to disposal; this is specifically important in the area historic Landfill south of the River Dee. Landfill Waste will be deemed hazardous and will require separate storage and disposal.

Hazardous, non-hazardous and inert materials should not be mixed, and care should be taken to avoid this during the works.

Due to the variable nature of made ground across the site and given the excavations did not extend to construction depth (with no samples of the Glacial Till / clay deposits obtained and analysed), there is a high potential for materials previously not encountered to be excavated as part of the works.

Additional tunnelling arisings may be subject to inclusions of additives e.g. drilling fluids and or greases, which will require review and possible chemical analysis prior to confirming offsite disposal or reuse opportunities.

Any materials encountered or produced as a result of the directional drilling process during the construction works that differ in nature, consistency and/or colour to those sampled and tested as part of the recent ground investigation or exhibiting evidence of contamination (e.g. asbestos or hydrocarbons) will require separate management and additional sampling and analyses to confirm potential off-site disposal options.

This waste assessment has been undertaken by competent and trained staff in accordance with current regulatory guidance and using available approved software using the available site investigation information provided by DCWW.

The assessments and advice given are specific to the waste streams to be generated during the site works however appropriate disposal of the soils to landfill is reliant on appropriate management of the waste streams leaving site.

Arup do not have responsibility for the management of the waste streams generated during the site works. It is assumed that the management of the wastes, and compliance with the findings of the assessments, to ensure that materials are disposed of to the appropriate landfill, lies with the Contractor and their site operatives.

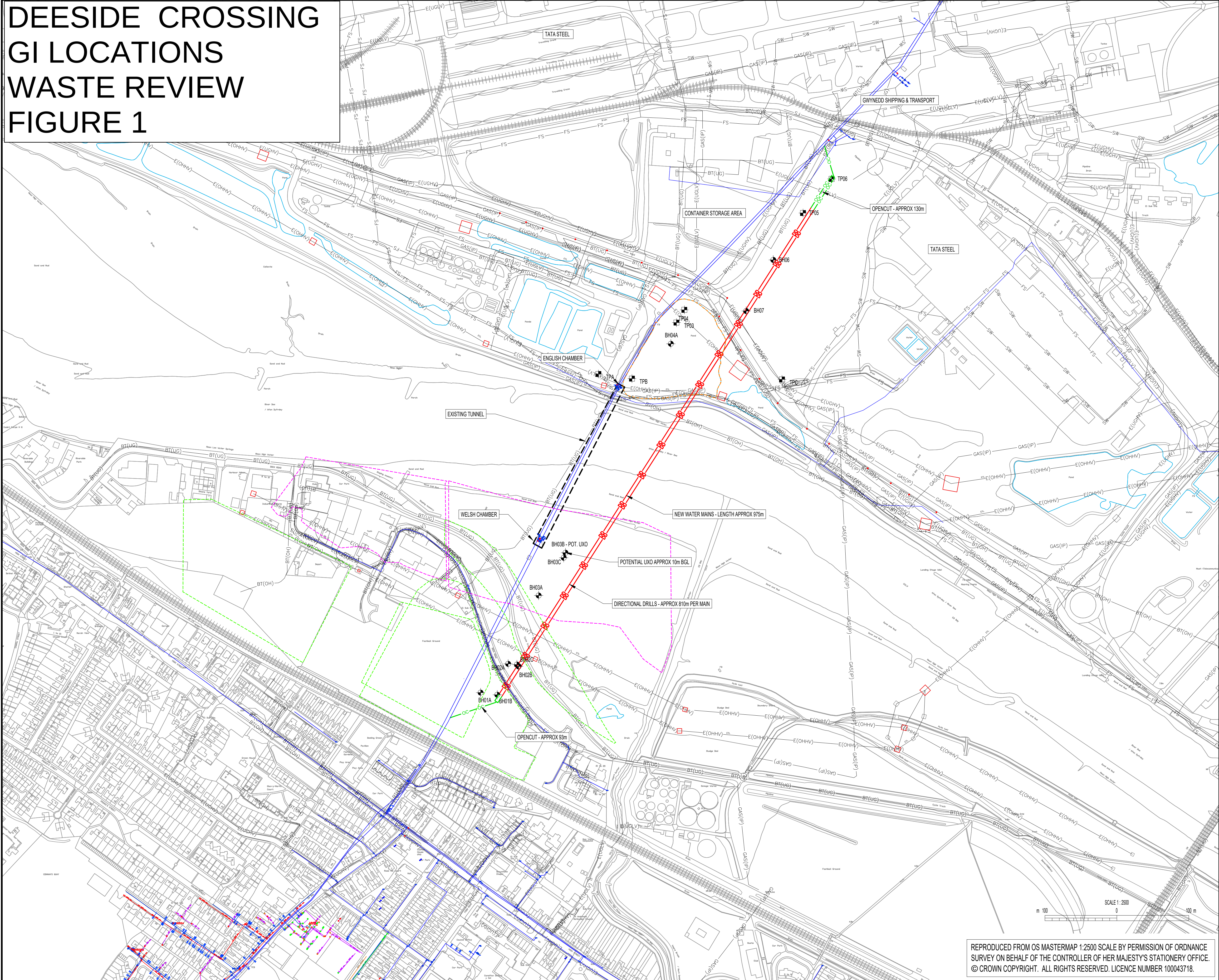
References

1. Waste Classification, Guidance on the classification and assessment of Waste (Technical Guidance WM3), V1.1, SEPA, NRW, EA, NIEA, 2018
2. Geo-Environmental Desk Study: Dee Crossing Tunnel Diversion, Arcadis Consulting (UK) Ltd, January 2018.
3. Dee Crossing – Tunnel Diversion, Factual Report on Ground Investigation, Report No. PN173686, Geotechnics Ltd, dated April 2018
4. Dee Crossing - Tunnel Diversion Geo-Environmental and Geotechnical Interpretative Report Arcadis Consulting (UK) Ltd, April 2018

DOCUMENT CHECKING

	Prepared by	Checked by	Approved by
Name	Victoria McGraw	Charlie Martin	Charlie Martin
Signature			

DEESIDE CROSSING
GI LOCATIONS
WASTE REVIEW
FIGURE 1



NOTES

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS SHOWN OTHERWISE.
- THIS DESIGN IS PROPOSED ON THE BASIS OF CLIENT BRIEF, SPECIFICATIONS, BEST PRACTICE AND RISK REDUCTION / ELIMINATION. THE DESIGNER MUST BE CONSULTED ON ANY PROPOSED CHANGES, BEFORE THEY ARE CONSIDERED FOR IMPLEMENTATION.

KEY

- PROPOSED WATER MAIN - DIRECTIONAL DRILLING
- PROPOSED WATER MAIN - OPEN CUT
- EXISTING POTABLE WATER MAIN
- EXISTING SURFACE WATER DRAIN / SEWER
- EXISTING FOUL WATER DRAIN / SEWER
- EXISTING INTERMEDIATE PRESSURE GAS MAIN
- EXISTING OVERHEAD HIGH VOLTAGE ELECTRIC CABLE(S)
- EXISTING OVERHEAD LOW VOLTAGE ELECTRIC CABLE(S)
- EXISTING UNDERGROUND HIGH VOLTAGE ELECTRIC CABLE
- EXISTING UNDERGROUND LOW VOLTAGE ELECTRIC CABLE
- EXISTING OVERHEAD TELECOM CABLE(S)
- EXISTING UNDERGROUND FIBRE CABLE
- EXTENT OF HISTORIC LANDFILL
- EXTENT OF INFILLED LAGOON
- EXTENT OF POTENTIAL INFILLED LAND (WATER)
- BOREHOLE RECORD
- TRIAL PIT RECORD

CAUTION: THE MANAGEMENT AND DESIGN OF ANY AND ALL TEMPORARY WORKS REQUIRED TO EXECUTE THIS DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SITE LOCATION

GRID REFERENCE: 330165, 369714

P02	03-03-2021	UPDATED LAYOUT TO SHOW SINGLE P.O.C	CJC	GP	PMJ
P01	01-10-2020	FIRST ISSUE	CJC	GP	PMJ

REV.	DATE	DESCRIPTION	ORIG	CHK	APP

CLIENT

PRINCIPAL DESIGNER

DWR CYMRU WELSH WATER

Waterco Ltd., Eden Court,
Lon Parcwr Business Park, Ruthin LL15 1NJ

tel (+44) 1824 702220
www.waterco.co.uk

SCHEME

DEE CROSSING
NEW WATER MAIN

TITLE

RIVER CROSSING LAYOUT

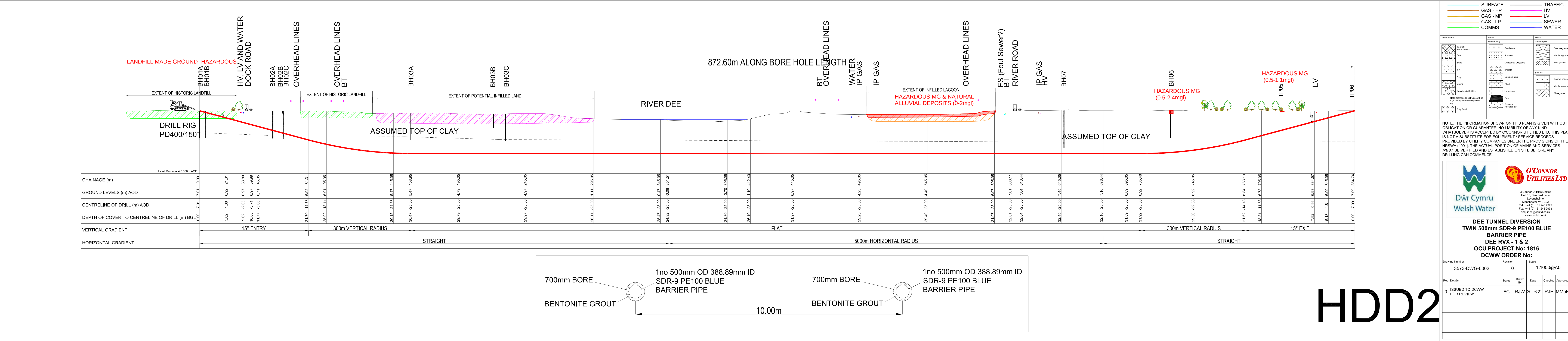
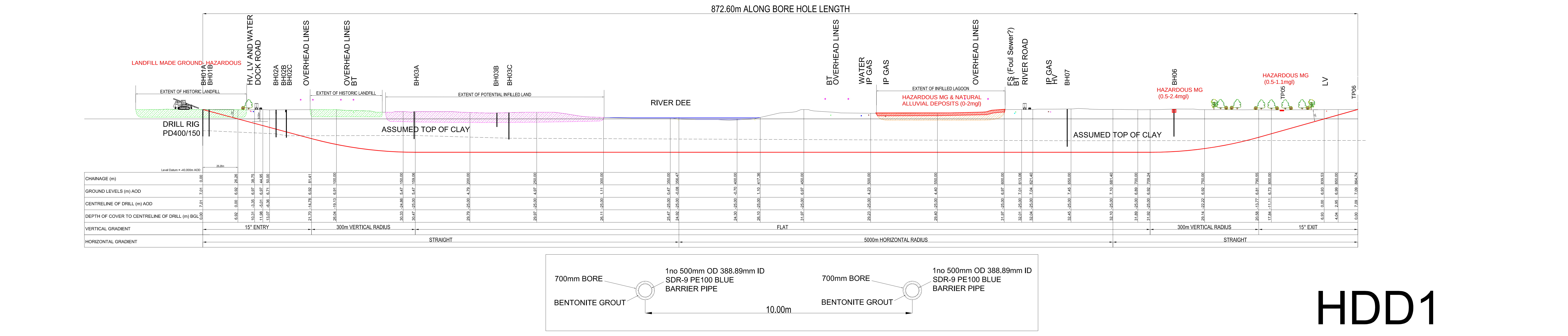
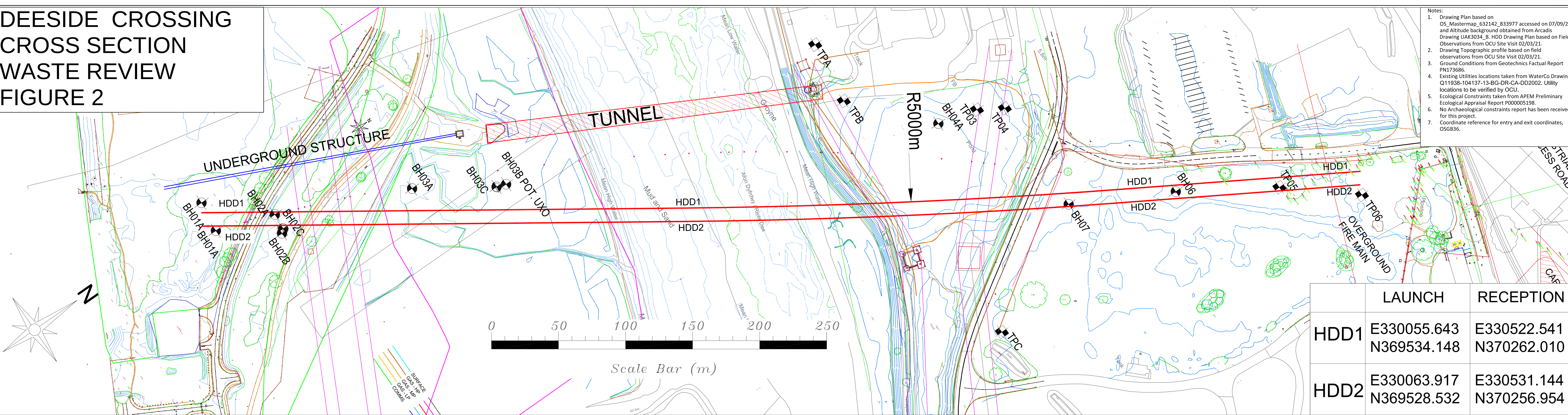
ORIGINATOR	C.CLISHAM	CHECKED	G.PRICE	APPROVED	P.JONES
STATUS	ISSUED FOR INFORMATION				S2
WATERCO SCHEME NO.	12432	SCALE / SHEET SIZE	1 : 2500 / A1	REV	P02

DRAWING NO.

Q11938-104137-13-BG-DR-CA-DD2002

REPRODUCED FROM OS MASTERMAP 1:2500 SCALE BY PERMISSION OF ORDNANCE SURVEY ON BEHALF OF THE CONTROLLER OF HER MAJESTY'S STATIONARY OFFICE. © CROWN COPYRIGHT. ALL RIGHTS RESERVED. LICENCE NUMBER 100043718.

DEESIDE CROSSING
CROSS SECTION
WASTE REVIEW
FIGURE 2



Waste Classification Report



B8A3T-PHE28-EN4QF

Job name

Dee Crossing Directional Drilling 24.3.21

Description/Comments

Chromium VI concentrations across all samples are <LOD.
 Sulphate mg/kg not specified as part of analysis suite. SO4 (2:1) g/l only.
 Moisture correction applied - laboratory results expressed on a dry weight basis.

Project

Dee Crossing

Site

Dee Crossing

Related Documents

#	Name	Description
None		

Waste Stream Template

Example waste stream template for contaminated soils

Classified by

Name: Victoria McGraw	Company: Ove Arup & Partners International Ltd	HazWasteOnline™ Training Record:	
Date: 24 Mar 2021 13:39 GMT	4 Pierhead Street	Course	Date
Telephone: 029 2976 9028	Capital Waterside	Hazardous Waste Classification	09 Sep 2014
	Cardiff	Advanced Hazardous Waste Classification	08 Dec 2016
	CF10 4QP		

Report

Created by: Victoria McGraw
 Created date: 24 Mar 2021 13:39 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	BH03A	1.00-1.20	Non Hazardous		3
2	BH03B	1.00	Non Hazardous		5
3	BH01A	1.00-1.10	Non Hazardous		7
4	BH01A[2]	2.50-2.80	Hazardous	HP 14	10
5	BH01A[3]	4.00-4.10	Non Hazardous		13
6	BH01B	0.50-0.60	Non Hazardous		16
7	BH01B[2]	2.00-2.10	Hazardous	HP 3(i), HP 7, HP 10, HP 11, HP 14	19
8	BH01B[3]	4.00-4.10	Non Hazardous		23
9	BH02A	0.25	Non Hazardous		26
10	BH02A[2]	2.10	Non Hazardous		29

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
11	BH02C	0.50	Non Hazardous		32
12	BH02C[2]	2.00	Non Hazardous		35
13	BH3C	0.20-0.30	Non Hazardous		38
14	BH07	0.50-0.60	Non Hazardous		40
15	BH06	1.00	Hazardous	HP 14	43
16	BH06[2]	3.00	Non Hazardous		46
17	BH07[2]	3.00-3.10	Non Hazardous		48
18	TP05	1.00	Hazardous	HP 3(i), HP 7, HP 11, HP 14	51
19	TP06	0.25	Non Hazardous		54
20	TP06[2]	1.00	Non Hazardous		57
21	HDP01	0.10-0.30	Non Hazardous		60
22	HDP02	0.10-0.30	Non Hazardous		63
23	HDP03	0.10-0.30	Non Hazardous		66
24	HDP04	0.00-0.30	Non Hazardous		69
25	HDP05	0.10-0.30	Non Hazardous		72
26	BH04	0.10	Hazardous	HP 3(i), HP 4, HP 5, HP 7, HP 10, HP 11, HP 14	75
27	BH04[2]	1.00	Hazardous	HP 4, HP 14	79
28	BH04[3]	4.00	Hazardous	HP 14	82
29	WSTP04	0.10-0.50	Hazardous	HP 3(i), HP 5, HP 7, HP 10, HP 11, HP 14	85
30	WSTP04[2]	1.20-1.70	Hazardous	HP 4, HP 7, HP 14	89
31	WSTP03	0.00-0.10	Non Hazardous		92

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	95
Appendix B: Rationale for selection of metal species	96
Appendix C: Version	97

Classification of sample: BH03A


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

Sample details

Sample Name:	LoW Code:	
BH03A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00-1.20 m		
Moisture content:		
39.9%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 39.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				38.2	mg/kg	1.32	36.052	mg/kg	0.00361 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				6.8	mg/kg	3.22	15.651	mg/kg	0.00157 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.1	mg/kg	1.142	0.0817	mg/kg	0.00000817 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				133.2	mg/kg	1.462	139.156	mg/kg	0.0139 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				50	mg/kg	1.126	40.239	mg/kg	0.00402 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	191	mg/kg		136.526	mg/kg	0.0137 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				0.4	mg/kg	1.353	0.387	mg/kg	0.0000387 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				32.5	mg/kg	2.637	61.253	mg/kg	0.00613 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	1.825	mg/kg	0.000183 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				489	mg/kg	4.398	1537.231	mg/kg	0.154 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
13	pH				7.47	pH		7.47	pH	7.47 pH		
14	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
15	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
16	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
17	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
18	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
19	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
20	fluoranthene				0.07	mg/kg		0.05	mg/kg	0.000005 %	✓	
		205-912-4	206-44-0									
21	pyrene				0.06	mg/kg		0.0429	mg/kg	0.00000429 %	✓	
		204-927-3	129-00-0									
22	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
23	chrysene				0.06	mg/kg		0.0429	mg/kg	0.00000429 %	✓	
	601-048-00-0	205-923-4	218-01-9									
24	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
25	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
26	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
27	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
28	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
29	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
30	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
Total:										0.197 %		

Key

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

Classification of sample: BH03B


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

Sample details

Sample Name:	LoW Code:	
BH03B	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00 m		
Moisture content:		
23.8%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 23.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				16.1 mg/kg	1.32	17.171 mg/kg	0.00172 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				3.9 mg/kg	3.22	10.143 mg/kg	0.00101 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.1 mg/kg	1.142	0.0923 mg/kg	0.00000923 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				102.4 mg/kg	1.462	120.891 mg/kg	0.0121 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				25 mg/kg	1.126	22.736 mg/kg	0.00227 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	87 mg/kg		70.275 mg/kg	0.00703 %	✓	
	082-001-00-6									
8	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.109 mg/kg	0.0000109 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				20.8 mg/kg	2.637	44.3 mg/kg	0.00443 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				260 mg/kg	4.398	923.636 mg/kg	0.0924 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									

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

Classification of sample: BH01A


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

Sample details

Sample Name:	LoW Code:
BH01A	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00-1.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
44.8%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 44.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				18.1	mg/kg	1.32	16.504	mg/kg	0.00165 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				4	mg/kg	3.22	8.895	mg/kg	0.000889 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				1.1	mg/kg	1.142	0.868	mg/kg	0.0000868 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				83.6	mg/kg	1.462	84.383	mg/kg	0.00844 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				86	mg/kg	1.126	66.869	mg/kg	0.00669 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	370	mg/kg		255.525	mg/kg	0.0256 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				44.1	mg/kg	2.637	80.302	mg/kg	0.00803 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				511	mg/kg	4.398	1552.031	mg/kg	0.155 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				1402	mg/kg		968.232	mg/kg	0.0968 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				0.009 mg/kg		0.0062 mg/kg	0.000000622 %	✓	
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				4 mg/kg	1.884	5.204 mg/kg	0.00052 %	✓	
	006-007-00-5									
19	pH				7.61 pH		7.61 pH	7.61 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.04 mg/kg		0.0276 mg/kg	0.00000276 %	✓	
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				0.32 mg/kg		0.221 mg/kg	0.0000221 %	✓	
		201-581-5	85-01-8							
25	anthracene				0.13 mg/kg		0.0898 mg/kg	0.00000898 %	✓	
		204-371-1	120-12-7							
26	fluoranthene				0.85 mg/kg		0.587 mg/kg	0.0000587 %	✓	
		205-912-4	206-44-0							
27	pyrene				0.77 mg/kg		0.532 mg/kg	0.0000532 %	✓	
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.53 mg/kg		0.366 mg/kg	0.0000366 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.52 mg/kg		0.359 mg/kg	0.0000359 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.58 mg/kg		0.401 mg/kg	0.0000401 %	✓	
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.23 mg/kg		0.159 mg/kg	0.0000159 %	✓	
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				0.29 mg/kg		0.2 mg/kg	0.00002 %	✓	
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				0.27 mg/kg		0.186 mg/kg	0.0000186 %	✓	
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.07 mg/kg		0.0483 mg/kg	0.00000483 %	✓	
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.25 mg/kg		0.173 mg/kg	0.0000173 %	✓	
		205-883-8	191-24-2							
36	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.305 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

toluene: (conc.: 6.22e-07%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0968%)

Classification of sample: BH01A[2]

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

Sample details

Sample Name:	LoW Code:
BH01A[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.50-2.80 m	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 sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 1.233%)

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				16.4	mg/kg	1.32	21.653	mg/kg	0.00217 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				2.6	mg/kg	3.22	8.372	mg/kg	0.000837 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				1	mg/kg	1.142	1.142	mg/kg	0.000114 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37.3	mg/kg	1.462	54.516	mg/kg	0.00545 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				510	mg/kg	1.126	574.203	mg/kg	0.0574 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	153	mg/kg		153	mg/kg	0.0153 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				2	mg/kg	1.353	2.707	mg/kg	0.000271 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				38.7	mg/kg	2.637	102.04	mg/kg	0.0102 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	2.554	mg/kg	0.000255 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				2804	mg/kg	4.398	12331.784	mg/kg	1.233 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
12	TPH (C6 to C40) petroleum group				851	mg/kg		851	mg/kg	0.0851 %	✓	
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.009	mg/kg		0.009	mg/kg	0.0000009 %	✓	
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				0.014	mg/kg		0.014	mg/kg	0.0000014 %	✓	
	601-020-00-8	200-753-7	71-43-2									
15	toluene				0.017	mg/kg		0.017	mg/kg	0.0000017 %	✓	
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				0.014	mg/kg		0.014	mg/kg	0.0000014 %	✓	
	601-023-00-4	202-849-4	100-41-4									
17	xylene				0.012	mg/kg		0.012	mg/kg	0.0000012 %	✓	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1	mg/kg	1.884	1.884	mg/kg	0.000188 %	✓	
	006-007-00-5											
19	pH				7.36	pH		7.36	pH	7.36 pH		
			PH									
20	naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %	✓	
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %	✓	
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				0.08	mg/kg		0.08	mg/kg	0.000008 %	✓	
		205-912-4	206-44-0									
27	pyrene				0.07	mg/kg		0.07	mg/kg	0.000007 %	✓	
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2									
36	phenol				2.97	mg/kg		2.97	mg/kg	0.000297 %	✓	
	604-001-00-2	203-632-7	108-95-2									
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6	mg/kg		<6	mg/kg	<0.0006 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								1.412 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinands:

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 9.0e-07%)
benzene: (conc.: 1.4e-06%)
toluene: (conc.: 1.7e-06%)
ethylbenzene: (conc.: 1.4e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0851%)
xylene: (conc.: 1.2e-06%)

Classification of sample: BH01A[3]


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

Sample details

Sample Name:	LoW Code:	
BH01A[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4.00-4.10 m		
Moisture content:		
37.3%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 37.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.2 mg/kg	1.32	5.962 mg/kg	0.000596 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1 mg/kg	3.22	2.345 mg/kg	0.000235 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				130.3 mg/kg	1.462	138.704 mg/kg	0.0139 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				10 mg/kg	1.126	8.2 mg/kg	0.00082 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	8 mg/kg		5.827 mg/kg	0.000583 %	✓	
	082-001-00-6									
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				20.9 mg/kg	2.637	40.136 mg/kg	0.00401 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				37 mg/kg	4.398	118.517 mg/kg	0.0119 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<40 mg/kg		<40 mg/kg	<0.004 %		<LOD
			TPH							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number										
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg			<0.005 mg/kg		<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4											
14		benzene				<0.005 mg/kg			<0.005 mg/kg		<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2											
15		toluene				<0.005 mg/kg			<0.005 mg/kg		<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3											
16	●	ethylbenzene				<0.005 mg/kg			<0.005 mg/kg		<0.0000005 %			<LOD
		601-023-00-4	202-849-4	100-41-4										
17		xylene				<0.005 mg/kg			<0.005 mg/kg		<0.0000005 %			<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]											
		203-396-5 [2]	106-42-3 [2]											
		203-576-3 [3]	108-38-3 [3]											
		215-535-7 [4]	1330-20-7 [4]											
18	●	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg		1.884	<0.942 mg/kg		<0.0000942 %			<LOD
		006-007-00-5												
19	●	pH				9.71 pH			9.71 pH		9.71 pH			
				pH										
20		naphthalene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3											
21	●	acenaphthylene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %			<LOD
		205-917-1	208-96-8											
22	●	acenaphthene				<0.05 mg/kg			<0.05 mg/kg		<0.000005 %			<LOD
		201-469-6	83-32-9											
23	●	fluorene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
		201-695-5	86-73-7											
24	●	phenanthrene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %			<LOD
		201-581-5	85-01-8											
25	●	anthracene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
		204-371-1	120-12-7											
26	●	fluoranthene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %			<LOD
		205-912-4	206-44-0											
27	●	pyrene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %			<LOD
		204-927-3	129-00-0											
28		benzo[a]anthracene				<0.06 mg/kg			<0.06 mg/kg		<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3											
29		chrysene				<0.02 mg/kg			<0.02 mg/kg		<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9											
30		benzo[b]fluoranthene				<0.05 mg/kg			<0.05 mg/kg		<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2											
31		benzo[k]fluoranthene				<0.02 mg/kg			<0.02 mg/kg		<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9											
32		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8											
33	●	indeno[123-cd]pyrene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
		205-893-2	193-39-5											
34		dibenz[a,h]anthracene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3											
35	●	benzo[ghi]perylene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %			<LOD
		205-883-8	191-24-2											
36		phenol				<1.5 mg/kg			<1.5 mg/kg		<0.00015 %			<LOD
	604-001-00-2	203-632-7	108-95-2											
Total:												0.0366 %		

Key

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

Classification of sample: BH01B


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

Sample details

Sample Name:	LoW Code:
BH01B	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50-0.60 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				12.4	mg/kg	1.32	16.372	mg/kg	0.00164 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		boron { diboron trioxide; boric oxide }				0.6	mg/kg	3.22	1.932	mg/kg	0.000193 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
3		cadmium { cadmium oxide }				1.1	mg/kg	1.142	1.257	mg/kg	0.000126 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22	mg/kg	1.462	32.154	mg/kg	0.00322 %	✓	
			215-160-9	1308-38-9									
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
		024-017-00-8											
6		copper { dicopper oxide; copper (I) oxide }				67	mg/kg	1.126	75.435	mg/kg	0.00754 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
7		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	448	mg/kg		448	mg/kg	0.0448 %	✓	
		082-001-00-6											
8		mercury { mercury dichloride }				0.1	mg/kg	1.353	0.135	mg/kg	0.0000135 %	✓	
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel sulfate }				29.9	mg/kg	2.637	78.837	mg/kg	0.00788 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
10		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									
11		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				373	mg/kg	4.398	1640.426	mg/kg	0.164 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12		TPH (C6 to C40) petroleum group				442	mg/kg		442	mg/kg	0.0442 %	✓	
				TPH									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				2.9 mg/kg	1.884	5.464 mg/kg	0.000546 %	✓	
	006-007-00-5									
19	pH				8.29 pH		8.29 pH	8.29 pH		
			PH							
20	naphthalene				0.15 mg/kg		0.15 mg/kg	0.000015 %	✓	
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.17 mg/kg		0.17 mg/kg	0.000017 %	✓	
		205-917-1	208-96-8							
22	acenaphthene				0.06 mg/kg		0.06 mg/kg	0.000006 %	✓	
		201-469-6	83-32-9							
23	fluorene				0.08 mg/kg		0.08 mg/kg	0.000008 %	✓	
		201-695-5	86-73-7							
24	phenanthrene				1.41 mg/kg		1.41 mg/kg	0.000141 %	✓	
		201-581-5	85-01-8							
25	anthracene				0.45 mg/kg		0.45 mg/kg	0.000045 %	✓	
		204-371-1	120-12-7							
26	fluoranthene				3.08 mg/kg		3.08 mg/kg	0.000308 %	✓	
		205-912-4	206-44-0							
27	pyrene				2.67 mg/kg		2.67 mg/kg	0.000267 %	✓	
		204-927-3	129-00-0							
28	benzo[a]anthracene				1.61 mg/kg		1.61 mg/kg	0.000161 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				1.35 mg/kg		1.35 mg/kg	0.000135 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				1.96 mg/kg		1.96 mg/kg	0.000196 %	✓	
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.76 mg/kg		0.76 mg/kg	0.000076 %	✓	
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				1.63 mg/kg		1.63 mg/kg	0.000163 %	✓	
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				1.08 mg/kg		1.08 mg/kg	0.000108 %	✓	
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.17 mg/kg		0.17 mg/kg	0.000017 %	✓	
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.98 mg/kg		0.98 mg/kg	0.000098 %	✓	
		205-883-8	191-24-2							
36	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.276 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
●	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0442%)

Classification of sample: BH01B[2]

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

Sample details

Sample Name:	LoW Code:	
BH01B[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
2.00-2.10 m		
Moisture content:		
13.1%		
(dry weight correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.355%)

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:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 1A; H360Df "May damage the unborn child. Suspected of damaging fertility."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.355%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

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.: 1.764%)

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.355%)

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 2.313%)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinands:

toluene: (conc.: 6.19e-07%)

ethylbenzene: (conc.: 7.07e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.11%)

xylene: (conc.: 1.33e-06%)

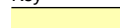
Determinands

Moisture content: 13.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	20.5	mg/kg	1.32	23.932	mg/kg	0.00239 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	0.9	mg/kg	3.22	2.562	mg/kg	0.000256 %	✓	
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	2.8	mg/kg	1.142	2.828	mg/kg	0.000283 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		44.3	mg/kg	1.462	57.247	mg/kg	0.00572 %	✓	
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	17720	mg/kg	1.126	17639.913	mg/kg	1.764 %	✓	
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			4012	mg/kg		3547.303	mg/kg	0.355 %	✓	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
9	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4	47.8	mg/kg	2.637	111.435	mg/kg	0.0111 %	✓	
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	2	mg/kg	2.554	4.516	mg/kg	0.000452 %	✓	
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	5949	mg/kg	4.398	23132.857	mg/kg	2.313 %	✓	
12	TPH (C6 to C40) petroleum group		TPH		1241	mg/kg		1097.259	mg/kg	0.11 %	✓	
13	benzene	601-020-00-8	200-753-7	71-43-2	<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
14	toluene	601-021-00-3	203-625-9	108-88-3	0.007	mg/kg		0.0061	mg/kg	0.000000619 %	✓	
15	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.008	mg/kg		0.007	mg/kg	0.000000707 %	✓	
16	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]	0.015	mg/kg		0.0133	mg/kg	0.00000133 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				2 mg/kg	1.884	3.332 mg/kg	0.000333 %	✓	
	006-007-00-5									
18	pH				8.05 pH		8.05 pH	8.05 pH		
			PH							
19	naphthalene				0.29 mg/kg		0.256 mg/kg	0.0000256 %	✓	
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				0.53 mg/kg		0.469 mg/kg	0.0000469 %	✓	
		201-469-6	83-32-9							
22	fluorene				0.73 mg/kg		0.645 mg/kg	0.0000645 %	✓	
		201-695-5	86-73-7							
23	phenanthrene				4.04 mg/kg		3.572 mg/kg	0.000357 %	✓	
		201-581-5	85-01-8							
24	anthracene				1.4 mg/kg		1.238 mg/kg	0.000124 %	✓	
		204-371-1	120-12-7							
25	fluoranthene				4.83 mg/kg		4.271 mg/kg	0.000427 %	✓	
		205-912-4	206-44-0							
26	pyrene				4.02 mg/kg		3.554 mg/kg	0.000355 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				2.63 mg/kg		2.325 mg/kg	0.000233 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				1.9 mg/kg		1.68 mg/kg	0.000168 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				2.51 mg/kg		2.219 mg/kg	0.000222 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.97 mg/kg		0.858 mg/kg	0.0000858 %	✓	
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				2.11 mg/kg		1.866 mg/kg	0.000187 %	✓	
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				1.07 mg/kg		0.946 mg/kg	0.0000946 %	✓	
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.93 mg/kg		0.822 mg/kg	0.0000822 %	✓	
		205-883-8	191-24-2							
35	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
36	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
37	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
38	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								4.566 %		

Key

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

Classification of sample: BH01B[3]


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

Sample details

Sample Name:	LoW Code:	
BH01B[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4.00-4.10 m		
Moisture content:		
31.8%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 31.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3.1 mg/kg	1.32	3.105 mg/kg	0.000311 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.3 mg/kg	3.22	0.733 mg/kg	0.0000733 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37.7 mg/kg	1.462	41.806 mg/kg	0.00418 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				7 mg/kg	1.126	5.98 mg/kg	0.000598 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	082-001-00-6									
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				7.3 mg/kg	2.637	14.604 mg/kg	0.00146 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				21 mg/kg	4.398	70.073 mg/kg	0.00701 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<40 mg/kg		<40 mg/kg	<0.004 %		<LOD
			TPH							
13	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
14	toluene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
16	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
18	pH				7.95 pH		7.95 pH	7.95 pH			
			PH								
19	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		201-581-5	85-01-8								
24	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-912-4	206-44-0								
26	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		204-927-3	129-00-0								
27	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
35	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
36	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
37	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
38	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	602-023-00-7	200-831-0	75-01-4								
Total:									0.0198 %		

Key

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

Classification of sample: BH02A


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

Sample details

Sample Name:	LoW Code:
BH02A	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.5%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				9	mg/kg	1.32	11.263	mg/kg	0.00113 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.4	mg/kg	3.22	1.221	mg/kg	0.000122 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.325	mg/kg	0.0000325 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				46.4	mg/kg	1.462	64.281	mg/kg	0.00643 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				14	mg/kg	1.126	14.941	mg/kg	0.00149 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	40	mg/kg		37.915	mg/kg	0.00379 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				10.2	mg/kg	2.637	25.492	mg/kg	0.00255 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				59	mg/kg	4.398	245.95	mg/kg	0.0246 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				92	mg/kg		87.204	mg/kg	0.00872 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
19	pH				8.38 pH		8.38 pH	8.38 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				0.04 mg/kg		0.0379 mg/kg	0.00000379 %	✓	
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				0.21 mg/kg		0.199 mg/kg	0.0000199 %	✓	
		201-581-5	85-01-8							
25	anthracene				0.06 mg/kg		0.0569 mg/kg	0.00000569 %	✓	
		204-371-1	120-12-7							
26	fluoranthene				0.44 mg/kg		0.417 mg/kg	0.0000417 %	✓	
		205-912-4	206-44-0							
27	pyrene				0.38 mg/kg		0.36 mg/kg	0.000036 %	✓	
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.29 mg/kg		0.275 mg/kg	0.0000275 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.21 mg/kg		0.199 mg/kg	0.0000199 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.32 mg/kg		0.303 mg/kg	0.0000303 %	✓	
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.13 mg/kg		0.123 mg/kg	0.0000123 %	✓	
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				0.21 mg/kg		0.199 mg/kg	0.0000199 %	✓	
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				0.17 mg/kg		0.161 mg/kg	0.0000161 %	✓	
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.04 mg/kg		0.0379 mg/kg	0.00000379 %	✓	
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.18 mg/kg		0.171 mg/kg	0.0000171 %	✓	
		205-883-8	191-24-2							
36	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0496 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
●	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00872%)

Classification of sample: BH02A[2]


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

Sample details

Sample Name:	LoW Code:	
BH02A[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.10 m		
Moisture content:		
21.8%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 21.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				41	mg/kg	1.32	44.444	mg/kg	0.00444 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				4.5	mg/kg	3.22	11.896	mg/kg	0.00119 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				7.8	mg/kg	1.142	7.315	mg/kg	0.000732 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22.7	mg/kg	1.462	27.239	mg/kg	0.00272 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				31	mg/kg	1.126	28.656	mg/kg	0.00287 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	195	mg/kg		160.099	mg/kg	0.016 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				2.5	mg/kg	1.353	2.778	mg/kg	0.000278 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				12.8	mg/kg	2.637	27.709	mg/kg	0.00277 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				340	mg/kg	4.398	1227.664	mg/kg	0.123 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				379	mg/kg		311.166	mg/kg	0.0311 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006 mg/kg		<0.006 mg/kg		<0.0000006 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				0.021 mg/kg		0.0172 mg/kg		0.00000172 %	✓	
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				0.013 mg/kg		0.0107 mg/kg		0.00000107 %	✓	
	601-023-00-4	202-849-4	100-41-4								
17	xylene				0.029 mg/kg		0.0238 mg/kg		0.00000238 %	✓	
	601-022-00-9	202-422-2 [1]	95-47-6 [1]								
		203-396-5 [2]	106-42-3 [2]								
		203-576-3 [3]	108-38-3 [3]								
		215-535-7 [4]	1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				4.2 mg/kg	1.884	6.497 mg/kg		0.00065 %	✓	
	006-007-00-5										
19	pH				8.26 pH		8.26 pH		8.26 pH		
			PH								
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
		201-695-5	86-73-7								
24	phenanthrene				0.06 mg/kg		0.0493 mg/kg		0.00000493 %	✓	
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
		204-371-1	120-12-7								
26	fluoranthene				0.06 mg/kg		0.0493 mg/kg		0.00000493 %	✓	
		205-912-4	206-44-0								
27	pyrene				0.06 mg/kg		0.0493 mg/kg		0.00000493 %	✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg		<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				0.04 mg/kg		0.0328 mg/kg		0.00000328 %	✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg		<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
		205-883-8	191-24-2								
36	phenol				<0.15 mg/kg		<0.15 mg/kg		<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg		<0.0006 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg		<0.0004 %		<LOD
	602-008-00-5	200-262-8	56-23-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.187 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinands:

toluene: (conc.: 1.72e-06%)

ethylbenzene: (conc.: 1.07e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0311%)

xylene: (conc.: 2.38e-06%)

Classification of sample: BH02C


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

Sample details

Sample Name:	LoW Code:
BH02C	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				12.4	mg/kg	1.32	16.372	mg/kg	0.00164 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		boron { diboron trioxide; boric oxide }				1.2	mg/kg	3.22	3.864	mg/kg	0.000386 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
3		cadmium { cadmium oxide }				0.4	mg/kg	1.142	0.457	mg/kg	0.0000457 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19.5	mg/kg	1.462	28.5	mg/kg	0.00285 %	✓	
			215-160-9	1308-38-9									
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
		024-017-00-8											
6		copper { dicopper oxide; copper (I) oxide }				42	mg/kg	1.126	47.287	mg/kg	0.00473 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
7		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	120	mg/kg		120	mg/kg	0.012 %	✓	
		082-001-00-6											
8		mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel sulfate }				19.9	mg/kg	2.637	52.47	mg/kg	0.00525 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
10		selenium { nickel selenate }				1	mg/kg	2.554	2.554	mg/kg	0.000255 %	✓	
		028-031-00-5	239-125-2	15060-62-5									
11		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				158	mg/kg	4.398	694.872	mg/kg	0.0695 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12		TPH (C6 to C40) petroleum group				164	mg/kg		164	mg/kg	0.0164 %	✓	
				TPH									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				0.018 mg/kg		0.018 mg/kg	0.0000018 %	✓	
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				0.008 mg/kg		0.008 mg/kg	0.0000008 %	✓	
	601-023-00-4	202-849-4	100-41-4							
17	xylene				0.026 mg/kg		0.026 mg/kg	0.0000026 %	✓	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
19	pH				9.07 pH		9.07 pH	9.07 pH		
			PH							
20	naphthalene				0.1 mg/kg		0.1 mg/kg	0.00001 %	✓	
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				0.51 mg/kg		0.51 mg/kg	0.000051 %	✓	
		201-581-5	85-01-8							
25	anthracene				0.11 mg/kg		0.11 mg/kg	0.000011 %	✓	
		204-371-1	120-12-7							
26	fluoranthene				0.73 mg/kg		0.73 mg/kg	0.000073 %	✓	
		205-912-4	206-44-0							
27	pyrene				0.7 mg/kg		0.7 mg/kg	0.00007 %	✓	
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.34 mg/kg		0.34 mg/kg	0.000034 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.42 mg/kg		0.42 mg/kg	0.000042 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.53 mg/kg		0.53 mg/kg	0.000053 %	✓	
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.2 mg/kg		0.2 mg/kg	0.00002 %	✓	
	601-036-00-5	205-916-6	207-08-9							
32	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							
33	indeno[123-cd]pyrene				0.27 mg/kg		0.27 mg/kg	0.000027 %	✓	
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				0.08 mg/kg		0.08 mg/kg	0.000008 %	✓	
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.28 mg/kg		0.28 mg/kg	0.000028 %	✓	
		205-883-8	191-24-2							
36	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.114 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
●	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinands:

toluene: (conc.: 1.8e-06%)

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

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0164%)

xylene: (conc.: 2.6e-06%)

Classification of sample: BH02C[2]


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

Sample details

Sample Name:	LoW Code:	
BH02C[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.00 m		
Moisture content:		
26.1%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 26.1% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				9	mg/kg	1.32	9.423	mg/kg	0.000942 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		boron { diboron trioxide; boric oxide }				3.9	mg/kg	3.22	9.958	mg/kg	0.000996 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
3		cadmium { cadmium oxide }				5.6	mg/kg	1.142	5.073	mg/kg	0.000507 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
4		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				80	mg/kg	1.462	92.724	mg/kg	0.00927 %	✓	
			215-160-9	1308-38-9									
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
		024-017-00-8											
6		copper { dicopper oxide; copper (I) oxide }				32	mg/kg	1.126	28.571	mg/kg	0.00286 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
7		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	92	mg/kg		72.958	mg/kg	0.0073 %	✓	
		082-001-00-6											
8		mercury { mercury dichloride }				0.4	mg/kg	1.353	0.429	mg/kg	0.0000429 %	✓	
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel sulfate }				13.6	mg/kg	2.637	28.437	mg/kg	0.00284 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
10		selenium { nickel selenate }				9	mg/kg	2.554	18.227	mg/kg	0.00182 %	✓	
		028-031-00-5	239-125-2	15060-62-5									
11		zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				60	mg/kg	4.398	209.259	mg/kg	0.0209 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12		TPH (C6 to C40) petroleum group				314	mg/kg		249.009	mg/kg	0.0249 %	✓	
			TPH										

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		603-181-00-X	216-653-1	1634-04-4								
14		benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-020-00-8	200-753-7	71-43-2								
15		toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
		601-021-00-3	203-625-9	108-88-3								
16	●	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
			601-023-00-4	202-849-4	100-41-4							
17	●	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD	
			601-022-00-9	202-422-2 [1]	95-47-6 [1]							
				203-396-5 [2]	106-42-3 [2]							
				203-576-3 [3]	108-38-3 [3]							
				215-535-7 [4]	1330-20-7 [4]							
18	●	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD	
			006-007-00-5									
19	●	pH				7.57 pH		7.57 pH	7.57 pH			
					PH							
20		naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
		601-052-00-2	202-049-5	91-20-3								
21	●	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
				205-917-1	208-96-8							
22	●	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
				201-469-6	83-32-9							
23	●	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
				201-695-5	86-73-7							
24	●	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
				201-581-5	85-01-8							
25	●	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
				204-371-1	120-12-7							
26	●	fluoranthene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
				205-912-4	206-44-0							
27	●	pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
				204-927-3	129-00-0							
28	●	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD	
			601-033-00-9	200-280-6	56-55-3							
29	●	chrysene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
			601-048-00-0	205-923-4	218-01-9							
30	●	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			601-034-00-4	205-911-9	205-99-2							
31	●	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD	
			601-036-00-5	205-916-6	207-08-9							
32	●	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
			601-032-00-3	200-028-5	50-32-8							
33	●	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
				205-893-2	193-39-5							
34	●	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
			601-041-00-2	200-181-8	53-70-3							
35	●	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
				205-883-8	191-24-2							
36	●	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD	
			604-001-00-2	203-632-7	108-95-2							
Total:									0.0726 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0249%)

Classification of sample: BH3C


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

Sample details

Sample Name:	LoW Code:
BH3C	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20-0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.5%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				24.4	mg/kg	1.32	26.735	mg/kg	0.00267 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				9.8	mg/kg	3.22	26.187	mg/kg	0.00262 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.19	mg/kg	0.000019 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				126.7	mg/kg	1.462	153.676	mg/kg	0.0154 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				39	mg/kg	1.126	36.44	mg/kg	0.00364 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	166	mg/kg		137.759	mg/kg	0.0138 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				0.6	mg/kg	1.353	0.674	mg/kg	0.0000674 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				32.9	mg/kg	2.637	71.989	mg/kg	0.0072 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	2.119	mg/kg	0.000212 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				449	mg/kg	4.398	1638.729	mg/kg	0.164 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	• pH		PH		7.61 pH		7.61 pH	7.61 pH		
14	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
15	• acenaphthylene		205-917-1	208-96-8	<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
16	• acenaphthene		201-469-6	83-32-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	• fluorene		201-695-5	86-73-7	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
18	• phenanthrene		201-581-5	85-01-8	0.2 mg/kg		0.166 mg/kg	0.0000166 %	✓	
19	• anthracene		204-371-1	120-12-7	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
20	• fluoranthene		205-912-4	206-44-0	0.47 mg/kg		0.39 mg/kg	0.000039 %	✓	
21	• pyrene		204-927-3	129-00-0	0.45 mg/kg		0.373 mg/kg	0.0000373 %	✓	
22	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.26 mg/kg		0.216 mg/kg	0.0000216 %	✓	
23	chrysene	601-048-00-0	205-923-4	218-01-9	0.29 mg/kg		0.241 mg/kg	0.0000241 %	✓	
24	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.33 mg/kg		0.274 mg/kg	0.0000274 %	✓	
25	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.13 mg/kg		0.108 mg/kg	0.0000108 %	✓	
26	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.26 mg/kg		0.216 mg/kg	0.0000216 %	✓	
27	• indeno[123-cd]pyrene		205-893-2	193-39-5	0.17 mg/kg		0.141 mg/kg	0.0000141 %	✓	
28	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
29	• benzo[ghi]perylene		205-883-8	191-24-2	0.17 mg/kg		0.141 mg/kg	0.0000141 %	✓	
30	phenol	604-001-00-2	203-632-7	108-95-2	0.19 mg/kg		0.158 mg/kg	0.0000158 %	✓	
Total:								0.21 %		

Key

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

Classification of sample: BH07


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

Sample details

Sample Name:	LoW Code:
BH07	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50-0.60 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
25.3%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 25.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				7.1	mg/kg	1.32	7.481	mg/kg	0.000748 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				1.5	mg/kg	3.22	3.855	mg/kg	0.000385 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.456	mg/kg	0.0000456 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				166.1	mg/kg	1.462	193.747	mg/kg	0.0194 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				26	mg/kg	1.126	23.362	mg/kg	0.00234 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	232	mg/kg		185.156	mg/kg	0.0185 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				46.2	mg/kg	2.637	97.219	mg/kg	0.00972 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	2.038	mg/kg	0.000204 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				349	mg/kg	4.398	1224.961	mg/kg	0.122 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				43	mg/kg		34.318	mg/kg	0.00343 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				0.009 mg/kg		0.0071 mg/kg	0.000000718 %	✓	
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				0.022 mg/kg		0.0176 mg/kg	0.00000176 %	✓	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
19	pH				7.81 pH		7.81 pH	7.81 pH		
			PH							
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
24	phenanthrene				0.04 mg/kg		0.0319 mg/kg	0.00000319 %	✓	
		201-581-5	85-01-8							
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7							
26	fluoranthene				0.1 mg/kg		0.0798 mg/kg	0.00000798 %	✓	
		205-912-4	206-44-0							
27	pyrene				0.09 mg/kg		0.0718 mg/kg	0.00000718 %	✓	
		204-927-3	129-00-0							
28	benzo[a]anthracene				0.09 mg/kg		0.0718 mg/kg	0.00000718 %	✓	
	601-033-00-9	200-280-6	56-55-3							
29	chrysene				0.04 mg/kg		0.0319 mg/kg	0.00000319 %	✓	
	601-048-00-0	205-923-4	218-01-9							
30	benzo[b]fluoranthene				0.09 mg/kg		0.0718 mg/kg	0.00000718 %	✓	
	601-034-00-4	205-911-9	205-99-2							
31	benzo[k]fluoranthene				0.03 mg/kg		0.0239 mg/kg	0.00000239 %	✓	
	601-036-00-5	205-916-6	207-08-9							
32	benzo[a]pyrene; benzo[def]chrysene				0.07 mg/kg		0.0559 mg/kg	0.00000559 %	✓	
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		205-883-8	191-24-2							
36	phenol				0.18 mg/kg		0.144 mg/kg	0.0000144 %	✓	
	604-001-00-2	203-632-7	108-95-2							
Total:								0.178 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
●	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

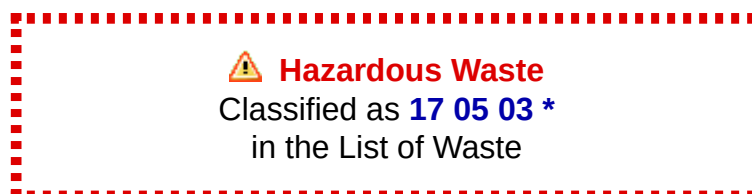
toluene: (conc.: 7.18e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.00343%)

xylene: (conc.: 1.76e-06%)

Classification of sample: BH06

Sample details

Sample Name:	LoW Code:
BH06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
9.4%	
(dry weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 0.267%)

Determinands

Moisture content: 9.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				15.6 mg/kg	1.32	18.827 mg/kg	0.00188 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1.2 mg/kg	3.22	3.532 mg/kg	0.000353 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				1.2 mg/kg	1.142	1.253 mg/kg	0.000125 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				93.4 mg/kg	1.462	124.78 mg/kg	0.0125 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				227 mg/kg	1.126	233.617 mg/kg	0.0234 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	397 mg/kg		362.888 mg/kg	0.0363 %	✓	
	082-001-00-6									
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				98.8 mg/kg	2.637	238.121 mg/kg	0.0238 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				1 mg/kg	2.554	2.334 mg/kg	0.000233 %	✓	
	028-031-00-5	239-125-2	15060-62-5							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				664	mg/kg	4.398	2669.308	mg/kg	0.267 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				165	mg/kg		150.823	mg/kg	0.0151 %	✓	
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				0.005	mg/kg		0.0045	mg/kg	0.000000457 %	✓	
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				0.009	mg/kg		0.0082	mg/kg	0.000000823 %	✓	
	601-023-00-4	202-849-4	100-41-4									
17	xylene				0.089	mg/kg		0.0814	mg/kg	0.00000814 %	✓	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.8	mg/kg	1.884	1.378	mg/kg	0.000138 %	✓	
	006-007-00-5											
19	pH				8.41	pH		8.41	pH	8.41 pH		
			PH									
20	naphthalene				0.25	mg/kg		0.229	mg/kg	0.0000229 %	✓	
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				0.06	mg/kg		0.0548	mg/kg	0.00000548 %	✓	
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				0.28	mg/kg		0.256	mg/kg	0.0000256 %	✓	
		201-581-5	85-01-8									
25	anthracene				0.09	mg/kg		0.0823	mg/kg	0.00000823 %	✓	
		204-371-1	120-12-7									
26	fluoranthene				0.4	mg/kg		0.366	mg/kg	0.0000366 %	✓	
		205-912-4	206-44-0									
27	pyrene				0.33	mg/kg		0.302	mg/kg	0.0000302 %	✓	
		204-927-3	129-00-0									
28	benzo[a]anthracene				0.25	mg/kg		0.229	mg/kg	0.0000229 %	✓	
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				0.2	mg/kg		0.183	mg/kg	0.0000183 %	✓	
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				0.34	mg/kg		0.311	mg/kg	0.0000311 %	✓	
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				0.13	mg/kg		0.119	mg/kg	0.0000119 %	✓	
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				0.26	mg/kg		0.238	mg/kg	0.0000238 %	✓	
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				0.22	mg/kg		0.201	mg/kg	0.0000201 %	✓	
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				0.06	mg/kg		0.0548	mg/kg	0.00000548 %	✓	
	601-041-00-2	200-181-8	53-70-3									
35	benzo[ghi]perylene				0.2	mg/kg		0.183	mg/kg	0.0000183 %	✓	
		205-883-8	191-24-2									
36	phenol				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
38	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.382 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 4.57e-07%)

ethylbenzene: (conc.: 8.23e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0151%)

xylene: (conc.: 8.14e-06%)

Classification of sample: BH06[2]


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

Sample details

Sample Name:	LoW Code:
BH06[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.00 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	12.3 mg/kg	1.32	16.24	mg/kg	0.00162 %	✓	
2	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 %	✓	
3	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 %	✓	
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	20.6 mg/kg	1.462	30.108	mg/kg	0.00301 %	✓	
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	55 mg/kg	1.126	61.924	mg/kg	0.00619 %	✓	
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			105 mg/kg		105	mg/kg	0.0105 %	✓	
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.1 mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
8	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4	25.7 mg/kg	2.637	67.763	mg/kg	0.00678 %	✓	
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	519 mg/kg	4.398	2282.524	mg/kg	0.228 %	✓	
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5			<0.5 mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
12	naphthalene	601-052-00-2	202-049-5	91-20-3	0.09 mg/kg		0.09	mg/kg	0.000009 %	✓	
13	acenaphthylene		205-917-1	208-96-8	0.29 mg/kg		0.29	mg/kg	0.000029 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	fluorene	201-695-5	86-73-7		0.32 mg/kg		0.32 mg/kg	0.000032 %	✓	
16	phenanthrene	201-581-5	85-01-8		0.72 mg/kg		0.72 mg/kg	0.000072 %	✓	
17	anthracene	204-371-1	120-12-7		0.35 mg/kg		0.35 mg/kg	0.000035 %	✓	
18	fluoranthene	205-912-4	206-44-0		0.68 mg/kg		0.68 mg/kg	0.000068 %	✓	
19	pyrene	204-927-3	129-00-0		0.43 mg/kg		0.43 mg/kg	0.000043 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		0.35 mg/kg		0.35 mg/kg	0.000035 %	✓	
21	chrysene	601-048-00-0	205-923-4		0.24 mg/kg		0.24 mg/kg	0.000024 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.32 mg/kg		0.32 mg/kg	0.000032 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.12 mg/kg		0.12 mg/kg	0.000012 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.21 mg/kg		0.21 mg/kg	0.000021 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		0.13 mg/kg		0.13 mg/kg	0.000013 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		0.13 mg/kg		0.13 mg/kg	0.000013 %	✓	
28	phenol	604-001-00-2	203-632-7		<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
Total:								0.257 %		

Key

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

Classification of sample: BH07[2]


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

Sample details

Sample Name:	LoW Code:
BH07[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.00-3.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
21.2%	
(dry weight correction)	

Hazard properties

None identified

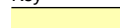
Determinands

Moisture content: 21.2% Dry Weight Moisture Correction applied (MC)

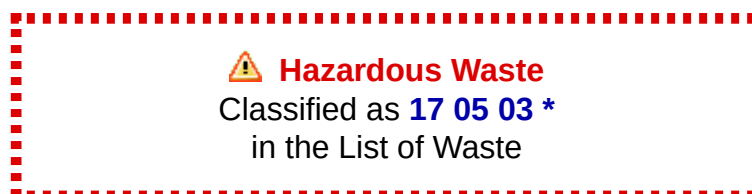
#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8.1	mg/kg	1.32	8.824	mg/kg	0.000882 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				1.1	mg/kg	3.22	2.922	mg/kg	0.000292 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.471	mg/kg	0.0000471 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				459.8	mg/kg	1.462	554.475	mg/kg	0.0554 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				70	mg/kg	1.126	65.027	mg/kg	0.0065 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	51	mg/kg		42.079	mg/kg	0.00421 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				59.4	mg/kg	2.637	129.224	mg/kg	0.0129 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				4	mg/kg	2.554	8.429	mg/kg	0.000843 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				372	mg/kg	4.398	1349.858	mg/kg	0.135 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				<40	mg/kg		<40	mg/kg	<0.004 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	pH				8.5 pH		8.5 pH	8.5 pH		
			PH							
19	naphthalene				0.13 mg/kg		0.107 mg/kg	0.0000107 %	✓	
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				0.37 mg/kg		0.305 mg/kg	0.0000305 %	✓	
		201-581-5	85-01-8							
24	anthracene				0.08 mg/kg		0.066 mg/kg	0.0000066 %	✓	
		204-371-1	120-12-7							
25	fluoranthene				0.64 mg/kg		0.528 mg/kg	0.0000528 %	✓	
		205-912-4	206-44-0							
26	pyrene				0.59 mg/kg		0.487 mg/kg	0.0000487 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.27 mg/kg		0.223 mg/kg	0.0000223 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.36 mg/kg		0.297 mg/kg	0.0000297 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				0.32 mg/kg		0.264 mg/kg	0.0000264 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.13 mg/kg		0.107 mg/kg	0.0000107 %	✓	
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.2 mg/kg		0.165 mg/kg	0.0000165 %	✓	
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.14 mg/kg		0.116 mg/kg	0.0000116 %	✓	
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.14 mg/kg		0.116 mg/kg	0.0000116 %	✓	
		205-883-8	191-24-2							
35	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
36	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
37	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
38	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.222 %		

Key

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

Classification of sample: TP05



Sample details

Sample Name:	LoW Code:	
TP05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.00 m		

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:

TPH (C6 to C40) petroleum group: (conc.: 0.173%)

Carc. 1A; H350i "May cause cancer by inhalation."

Because of determinand:

nickel sulfate: (compound conc.: 0.109%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (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:

nickel sulfate: (compound conc.: 0.109%)

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 0.326%)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.173%)

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	59.8	mg/kg	1.32	78.955	mg/kg	0.0079 %	✓	
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2								
3	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		319.9	mg/kg	1.462	467.552	mg/kg	0.0468 %	✓	
5	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			402	mg/kg		402	mg/kg	0.0402 %	✓	
7	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel sulfate }	028-009-00-5	232-104-9	7786-81-4	412.5	mg/kg	2.637	1087.633	mg/kg	0.109 %	✓	
9	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5								
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	741	mg/kg	4.398	3258.863	mg/kg	0.326 %	✓	
11	TPH (C6 to C40) petroleum group			TPH								
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
13	benzene	601-020-00-8	200-753-7	71-43-2								
14	toluene	601-021-00-3	203-625-9	108-88-3	<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
15	ethylbenzene	601-023-00-4	202-849-4	100-41-4								
16	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5										
18	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.8	mg/kg		<0.8	mg/kg	<0.00008 %		<LOD
19	acenaphthylene	205-917-1	208-96-8									
20	acenaphthene	201-469-6	83-32-9		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
21	fluorene	201-695-5	86-73-7									
22	phenanthrene	201-581-5	85-01-8		0.79	mg/kg		0.79	mg/kg	0.000079 %	✓	
23	anthracene	204-371-1	120-12-7									
24	fluoranthene	205-912-4	206-44-0		1.08	mg/kg		1.08	mg/kg	0.000108 %	✓	
25	pyrene	204-927-3	129-00-0									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
26	benzo[a]anthracene				<1.2 mg/kg		<1.2 mg/kg	<0.00012 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				0.63 mg/kg		0.63 mg/kg	0.000063 %	✓	
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				<0.4 mg/kg		<0.4 mg/kg	<0.00004 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				<0.8 mg/kg		<0.8 mg/kg	<0.00008 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
31	indeno[123-cd]pyrene				<0.8 mg/kg		<0.8 mg/kg	<0.00008 %		<LOD
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				<0.8 mg/kg		<0.8 mg/kg	<0.00008 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
33	benzo[ghi]perylene				<0.8 mg/kg		<0.8 mg/kg	<0.00008 %		<LOD
		205-883-8	191-24-2							
34	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.739 %		

Key

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

Classification of sample: TP06


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

Sample details

Sample Name:	LoW Code:
TP06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.8%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				14.5	mg/kg	1.32	18.095	mg/kg	0.00181 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				1	mg/kg	3.22	3.043	mg/kg	0.000304 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.324	mg/kg	0.0000324 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				213.8	mg/kg	1.462	295.35	mg/kg	0.0295 %	✓	
		215-160-9	1308-38-9									
5	copper { dicopper oxide; copper (I) oxide }				154	mg/kg	1.126	163.882	mg/kg	0.0164 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	106	mg/kg		100.189	mg/kg	0.01 %	✓	
	082-001-00-6											
7	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel sulfate }				193	mg/kg	2.637	480.983	mg/kg	0.0481 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { nickel selenate }				2	mg/kg	2.554	4.828	mg/kg	0.000483 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				263	mg/kg	4.398	1093.246	mg/kg	0.109 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	TPH (C6 to C40) petroleum group				173	mg/kg		163.516	mg/kg	0.0164 %	✓	
			TPH									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
13	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
18	naphthalene				0.29 mg/kg		0.274 mg/kg	0.0000274 %	✓	
	601-052-00-2	202-049-5	91-20-3							
19	acenaphthylene				0.7 mg/kg		0.662 mg/kg	0.0000662 %	✓	
		205-917-1	208-96-8							
20	acenaphthene				0.1 mg/kg		0.0945 mg/kg	0.00000945 %	✓	
		201-469-6	83-32-9							
21	fluorene				0.15 mg/kg		0.142 mg/kg	0.0000142 %	✓	
		201-695-5	86-73-7							
22	phenanthrene				3.88 mg/kg		3.667 mg/kg	0.000367 %	✓	
		201-581-5	85-01-8							
23	anthracene				1.59 mg/kg		1.503 mg/kg	0.00015 %	✓	
		204-371-1	120-12-7							
24	fluoranthene				4.46 mg/kg		4.216 mg/kg	0.000422 %	✓	
		205-912-4	206-44-0							
25	pyrene				3.03 mg/kg		2.864 mg/kg	0.000286 %	✓	
		204-927-3	129-00-0							
26	benzo[a]anthracene				1.81 mg/kg		1.711 mg/kg	0.000171 %	✓	
	601-033-00-9	200-280-6	56-55-3							
27	chrysene				1.5 mg/kg		1.418 mg/kg	0.000142 %	✓	
	601-048-00-0	205-923-4	218-01-9							
28	benzo[b]fluoranthene				1.84 mg/kg		1.739 mg/kg	0.000174 %	✓	
	601-034-00-4	205-911-9	205-99-2							
29	benzo[k]fluoranthene				0.71 mg/kg		0.671 mg/kg	0.0000671 %	✓	
	601-036-00-5	205-916-6	207-08-9							
30	benzo[a]pyrene; benzo[def]chrysene				0.95 mg/kg		0.898 mg/kg	0.0000898 %	✓	
	601-032-00-3	200-028-5	50-32-8							
31	indeno[123-cd]pyrene				0.73 mg/kg		0.69 mg/kg	0.000069 %	✓	
		205-893-2	193-39-5							
32	dibenz[a,h]anthracene				0.2 mg/kg		0.189 mg/kg	0.0000189 %	✓	
	601-041-00-2	200-181-8	53-70-3							
33	benzo[ghi]perylene				0.72 mg/kg		0.681 mg/kg	0.0000681 %	✓	
		205-883-8	191-24-2							
34	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.235 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0164%)

Classification of sample: TP06[2]


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

Sample details

Sample Name:	LoW Code:
TP06[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				38.3 mg/kg	1.32	50.568 mg/kg	0.00506 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.4 mg/kg	3.22	1.288 mg/kg	0.000129 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				76.2 mg/kg	1.462	111.371 mg/kg	0.0111 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				202 mg/kg	1.126	227.429 mg/kg	0.0227 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	182 mg/kg		182 mg/kg	0.0182 %	✓	
	082-001-00-6									
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				116.1 mg/kg	2.637	306.119 mg/kg	0.0306 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				2 mg/kg	2.554	5.108 mg/kg	0.000511 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				363 mg/kg	4.398	1596.447 mg/kg	0.16 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				131 mg/kg		131 mg/kg	0.0131 %	✓	
			TPH							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
19	pH				8.65 pH		8.65 pH	8.65 pH			
20	naphthalene				0.1 mg/kg		0.1 mg/kg	0.00001 %		✓	
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				0.42 mg/kg		0.42 mg/kg	0.000042 %		✓	
		201-581-5	85-01-8								
25	anthracene				0.1 mg/kg		0.1 mg/kg	0.00001 %		✓	
		204-371-1	120-12-7								
26	fluoranthene				0.57 mg/kg		0.57 mg/kg	0.000057 %		✓	
		205-912-4	206-44-0								
27	pyrene				0.45 mg/kg		0.45 mg/kg	0.000045 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				0.27 mg/kg		0.27 mg/kg	0.000027 %		✓	
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				0.3 mg/kg		0.3 mg/kg	0.00003 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				0.37 mg/kg		0.37 mg/kg	0.000037 %		✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				0.15 mg/kg		0.15 mg/kg	0.000015 %		✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				0.22 mg/kg		0.22 mg/kg	0.000022 %		✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				0.18 mg/kg		0.18 mg/kg	0.000018 %		✓	
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				0.04 mg/kg		0.04 mg/kg	0.000004 %		✓	
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				0.18 mg/kg		0.18 mg/kg	0.000018 %		✓	
		205-883-8	191-24-2								
36	phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	602-023-00-7	200-831-0	75-01-4								
Total:									0.263 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
■	Determinand defined or amended by HazWasteOnline (see Appendix A)
■	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0131%)

Classification of sample: HDP01


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

Sample details

Sample Name:	LoW Code:
HDP01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10-0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
41.4%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 41.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				21.2	mg/kg	1.32	19.796	mg/kg	0.00198 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				8.2	mg/kg	3.22	18.673	mg/kg	0.00187 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				89.4	mg/kg	1.462	92.407	mg/kg	0.00924 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				30	mg/kg	1.126	23.887	mg/kg	0.00239 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	109	mg/kg		77.086	mg/kg	0.00771 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				0.4	mg/kg	1.353	0.383	mg/kg	0.0000383 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				25.1	mg/kg	2.637	46.804	mg/kg	0.00468 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	1.806	mg/kg	0.000181 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				569	mg/kg	4.398	1769.745	mg/kg	0.177 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				92	mg/kg		65.064	mg/kg	0.00651 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
14	benzene 601-020-00-8 200-753-7 71-43-2				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	toluene 601-021-00-3 203-625-9 108-88-3				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
16	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
17	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				12.4 mg/kg	1.884	16.522 mg/kg	0.00165 %	✓	
19	pH PH				8.5 pH		8.5 pH	8.5 pH		
20	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1 208-96-8				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6 83-32-9				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5 86-73-7				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5 85-01-8				0.06 mg/kg		0.0424 mg/kg	0.00000424 %	✓	
25	anthracene 204-371-1 120-12-7				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4 206-44-0				0.08 mg/kg		0.0566 mg/kg	0.00000566 %	✓	
27	pyrene 204-927-3 129-00-0				0.08 mg/kg		0.0566 mg/kg	0.00000566 %	✓	
28	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0 205-923-4 218-01-9				0.07 mg/kg		0.0495 mg/kg	0.00000495 %	✓	
30	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.07 mg/kg		0.0495 mg/kg	0.00000495 %	✓	
31	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.03 mg/kg		0.0212 mg/kg	0.00000212 %	✓	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8 191-24-2				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
36	phenol 604-001-00-2 203-632-7 108-95-2				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5 107-06-2, 75-34-3				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
38	carbon tetrachloride; tetrachloromethane 602-008-00-5 200-262-8 56-23-5				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00651%)

Classification of sample: HDP02


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

Sample details

Sample Name:	LoW Code:	
HDP02	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10-0.30 m		
Moisture content:		
76.9%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 76.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				16.5	mg/kg	1.32	12.315	mg/kg	0.00123 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				19.5	mg/kg	3.22	35.493	mg/kg	0.00355 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.129	mg/kg	0.0000129 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				73.2	mg/kg	1.462	60.478	mg/kg	0.00605 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				28	mg/kg	1.126	17.821	mg/kg	0.00178 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	81	mg/kg		45.789	mg/kg	0.00458 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				36.9	mg/kg	2.637	54.999	mg/kg	0.0055 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	1.444	mg/kg	0.000144 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				336	mg/kg	4.398	835.332	mg/kg	0.0835 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				<38	mg/kg		<38	mg/kg	<0.0038 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]								
		203-396-5 [2]	106-42-3 [2]								
		203-576-3 [3]	108-38-3 [3]								
		215-535-7 [4]	1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				5.3 mg/kg	1.884	5.645 mg/kg	0.000564 %		✓	
	006-007-00-5										
19	pH				8.3 pH		8.3 pH	8.3 pH			
			PH								
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				0.07 mg/kg		0.0396 mg/kg	0.00000396 %		✓	
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				0.12 mg/kg		0.0678 mg/kg	0.00000678 %		✓	
		205-912-4	206-44-0								
27	pyrene				0.11 mg/kg		0.0622 mg/kg	0.00000622 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				0.09 mg/kg		0.0509 mg/kg	0.00000509 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				0.12 mg/kg		0.0678 mg/kg	0.00000678 %		✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				0.04 mg/kg		0.0226 mg/kg	0.00000226 %		✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				0.09 mg/kg		0.0509 mg/kg	0.00000509 %		✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %			<LOD
	602-008-00-5	200-262-8	56-23-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.112 %		

Key

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

Classification of sample: HDP03


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

Sample details

Sample Name:	LoW Code:
HDP03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10-0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
31.6%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 31.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				18.8	mg/kg	1.32	18.862	mg/kg	0.00189 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				10	mg/kg	3.22	24.467	mg/kg	0.00245 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				89.2	mg/kg	1.462	99.066	mg/kg	0.00991 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	14.544	mg/kg	0.00145 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	172	mg/kg		130.699	mg/kg	0.0131 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				22.4	mg/kg	2.637	44.88	mg/kg	0.00449 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				1	mg/kg	2.554	1.941	mg/kg	0.000194 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				368	mg/kg	4.398	1229.815	mg/kg	0.123 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				<38	mg/kg		<38	mg/kg	<0.0038 %		<LOD
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.006 mg/kg		<0.006 mg/kg		<0.0000006 %		<LOD
14	benzene 601-020-00-8 200-753-7 71-43-2				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
15	toluene 601-021-00-3 203-625-9 108-88-3				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
16	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
17	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.004 mg/kg		<0.004 mg/kg		<0.0000004 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				1.2 mg/kg	1.884	1.718 mg/kg		0.000172 %	✓	
19	pH PH				8.05 pH		8.05 pH		8.05 pH		
20	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
21	acenaphthylene 205-917-1 208-96-8				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
22	acenaphthene 201-469-6 83-32-9				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
23	fluorene 201-695-5 86-73-7				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
24	phenanthrene 201-581-5 85-01-8				0.22 mg/kg		0.167 mg/kg		0.0000167 %	✓	
25	anthracene 204-371-1 120-12-7				0.08 mg/kg		0.0608 mg/kg		0.00000608 %	✓	
26	fluoranthene 205-912-4 206-44-0				0.43 mg/kg		0.327 mg/kg		0.0000327 %	✓	
27	pyrene 204-927-3 129-00-0				0.41 mg/kg		0.312 mg/kg		0.0000312 %	✓	
28	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.29 mg/kg		0.22 mg/kg		0.000022 %	✓	
29	chrysene 601-048-00-0 205-923-4 218-01-9				0.28 mg/kg		0.213 mg/kg		0.0000213 %	✓	
30	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.36 mg/kg		0.274 mg/kg		0.0000274 %	✓	
31	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.14 mg/kg		0.106 mg/kg		0.0000106 %	✓	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.25 mg/kg		0.19 mg/kg		0.000019 %	✓	
33	indeno[123-cd]pyrene 205-893-2 193-39-5				0.17 mg/kg		0.129 mg/kg		0.0000129 %	✓	
34	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8 191-24-2				0.2 mg/kg		0.152 mg/kg		0.0000152 %	✓	
36	phenol 604-001-00-2 203-632-7 108-95-2				<0.01 mg/kg		<0.01 mg/kg		<0.000001 %		<LOD
37	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5 107-06-2, 75-34-3				<6 mg/kg		<6 mg/kg		<0.0006 %		<LOD
38	carbon tetrachloride; tetrachloromethane 602-008-00-5 200-262-8 56-23-5				<4 mg/kg		<4 mg/kg		<0.0004 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.162 %		

Key

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

Classification of sample: HDP04


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

Sample details

Sample Name:	LoW Code:
HDP04	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.00-0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
71.5%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 71.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				18.9 mg/kg	1.32	14.551 mg/kg	0.00146 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				18.2 mg/kg	3.22	34.17 mg/kg	0.00342 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				93.3 mg/kg	1.462	79.512 mg/kg	0.00795 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3 mg/kg	2.27	<0.681 mg/kg	<0.0000681 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	20.351 mg/kg	0.00204 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	99 mg/kg		57.726 mg/kg	0.00577 %	✓	
	082-001-00-6									
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel sulfate }				45.2 mg/kg	2.637	69.492 mg/kg	0.00695 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				2 mg/kg	2.554	2.978 mg/kg	0.000298 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				395 mg/kg	4.398	1012.933 mg/kg	0.101 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				41 mg/kg		23.907 mg/kg	0.00239 %	✓	
			TPH							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]								
		203-396-5 [2]	106-42-3 [2]								
		203-576-3 [3]	108-38-3 [3]								
		215-535-7 [4]	1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				1.2 mg/kg	1.884	1.318 mg/kg	0.000132 %		✓	
	006-007-00-5										
19	pH				8.13 pH		8.13 pH	8.13 pH			
			PH								
20	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				0.09 mg/kg		0.0525 mg/kg	0.00000525 %		✓	
		201-581-5	85-01-8								
25	anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				0.09 mg/kg		0.0525 mg/kg	0.00000525 %		✓	
		205-912-4	206-44-0								
27	pyrene				0.07 mg/kg		0.0408 mg/kg	0.00000408 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				0.05 mg/kg		0.0292 mg/kg	0.00000292 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		205-883-8	191-24-2								
36	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %			<LOD
	602-008-00-5	200-262-8	56-23-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.133 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00239%)

Classification of sample: HDP05


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

Sample details

Sample Name:	LoW Code:	
HDP05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.10-0.30 m		
Moisture content:		
48.9%		
(dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 48.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				32.5	mg/kg	1.32	28.818	mg/kg	0.00288 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				11.9	mg/kg	3.22	25.733	mg/kg	0.00257 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				102.7	mg/kg	1.462	100.807	mg/kg	0.0101 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				46	mg/kg	1.126	34.782	mg/kg	0.00348 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	240	mg/kg		161.182	mg/kg	0.0161 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				0.5	mg/kg	1.353	0.454	mg/kg	0.0000454 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				41.3	mg/kg	2.637	73.133	mg/kg	0.00731 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				2	mg/kg	2.554	3.43	mg/kg	0.000343 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				838	mg/kg	4.398	2475.126	mg/kg	0.248 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				216	mg/kg		145.064	mg/kg	0.0145 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
14	benzene 601-020-00-8 200-753-7 71-43-2				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
15	toluene 601-021-00-3 203-625-9 108-88-3				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
16	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
17	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				13.1 mg/kg	1.884	16.575 mg/kg	0.00166 %	✓	
19	pH PH				7.9 pH		7.9 pH	7.9 pH		
20	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1 208-96-8				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6 83-32-9				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5 86-73-7				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5 85-01-8				0.1 mg/kg		0.0672 mg/kg	0.00000672 %	✓	
25	anthracene 204-371-1 120-12-7				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4 206-44-0				0.16 mg/kg		0.107 mg/kg	0.0000107 %	✓	
27	pyrene 204-927-3 129-00-0				0.13 mg/kg		0.0873 mg/kg	0.00000873 %	✓	
28	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.12 mg/kg		0.0806 mg/kg	0.00000806 %	✓	
29	chrysene 601-048-00-0 205-923-4 218-01-9				0.1 mg/kg		0.0672 mg/kg	0.00000672 %	✓	
30	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.13 mg/kg		0.0873 mg/kg	0.00000873 %	✓	
31	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.05 mg/kg		0.0336 mg/kg	0.00000336 %	✓	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.09 mg/kg		0.0604 mg/kg	0.00000604 %	✓	
33	indeno[123-cd]pyrene 205-893-2 193-39-5				0.07 mg/kg		0.047 mg/kg	0.0000047 %	✓	
34	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8 191-24-2				0.07 mg/kg		0.047 mg/kg	0.0000047 %	✓	
36	phenol 604-001-00-2 203-632-7 108-95-2				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5 107-06-2, 75-34-3				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
38	carbon tetrachloride; tetrachloromethane 602-008-00-5 200-262-8 56-23-5				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.308 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0145%)

Classification of sample: BH04

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

Sample details

Sample Name:	LoW Code:	
BH04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.10 m		
Moisture content:		
75.1%		
(dry weight correction)		

Hazard properties

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

Hazard Statements hit:

Eye Dam. 1; H318 "Causes serious eye damage."

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 15.045%)

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

Hazard Statements hit:

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

Because of determinand:

nickel sulfate: (compound conc.: 3.093%)

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:

TPH (C6 to C40) petroleum group: (conc.: 3.44%)

Carc. 1A; H350i "May cause cancer by inhalation."

Because of determinand:

nickel sulfate: (compound conc.: 3.093%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 1B; H360D "May damage the unborn child."

Because of determinand:

nickel sulfate: (compound conc.: 3.093%)

Repr. 1B; H360FD "May damage fertility. May damage the unborn child."

Because of determinand:

chromium(III) oxide (worst case): (compound conc.: 1.351%)

Repr. 2; H361d "Suspected of damaging the unborn child."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 3.44%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 3.44%)

Muta. 2; H341 "Suspected of causing genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

nickel sulfate: (compound conc.: 3.093%)

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:

chromium(III) oxide (worst case): (compound conc.: 1.351%)

nickel sulfate: (compound conc.: 3.093%)

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 15.045%)

Aquatic Chronic 2; H411 "Toxic to aquatic life with long lasting effects."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 3.44%)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 3.44%)

Determinands

Moisture content: 75.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				<0.5	mg/kg	1.32	<0.66	mg/kg	<0.000066 %		<LOD
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.9	mg/kg	3.22	1.655	mg/kg	0.000165 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				16180	mg/kg	1.462	13505.41	mg/kg	1.351 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				56	mg/kg	1.126	36.008	mg/kg	0.0036 %	✓	
	029-002-00-X	215-270-7	1317-39-1									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	200	mg/kg		114.22	mg/kg	0.0114 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				20540	mg/kg	2.637	30929.473	mg/kg	3.093 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				2	mg/kg	2.554	2.917	mg/kg	0.000292 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				59900	mg/kg	4.398	150448.753	mg/kg	15.045 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				60242	mg/kg		34404.34	mg/kg	3.44 %	✓	
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				5.5	mg/kg	1.884	5.918	mg/kg	0.000592 %	✓	
	006-007-00-5											
19	pH				6.4	pH		6.4	pH	6.4 pH		
			PH									
20	naphthalene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.25	mg/kg		<0.25	mg/kg	<0.000025 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
		201-581-5	85-01-8									
25	anthracene				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.25	mg/kg		<0.25	mg/kg	<0.000025 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
32		benzo[a]pyrene; benzo[def]chrysene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD	
		601-032-00-3	200-028-5	50-32-8								
33	■	indeno[123-cd]pyrene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD	
			205-893-2	193-39-5								
34		dibenz[a,h]anthracene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
35	■	benzo[ghi]perylene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD	
			205-883-8	191-24-2								
36		phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD	
		604-001-00-2	203-632-7	108-95-2								
37	■	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD	
			203-458-1, 200-863-5	107-06-2, 75-34-3								
38		carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD	
		602-008-00-5	200-262-8	56-23-5								
39		vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD	
		602-023-00-7	200-831-0	75-01-4								
Total:									22.947 %			

Key

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

Classification of sample: BH04[2]

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

Sample details

Sample Name:	LoW Code:
BH04[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
23.3%	
(dry weight correction)	

Hazard properties

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

Hazard Statements hit:

Eye Dam. 1; H318 "Causes serious eye damage."

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 11.885%)

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 11.885%)

Determinands

Moisture content: 23.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8.9	mg/kg	1.32	9.53	mg/kg	0.000953 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				1.3	mg/kg	3.22	3.395	mg/kg	0.000339 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				1.9	mg/kg	1.142	1.76	mg/kg	0.000176 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				516	mg/kg	1.462	611.649	mg/kg	0.0612 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				72	mg/kg	1.126	65.745	mg/kg	0.00657 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	151	mg/kg		122.466	mg/kg	0.0122 %	✓	
	082-001-00-6											

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				196.5	mg/kg	2.637	420.202	mg/kg	0.042 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				33320	mg/kg	4.398	118847.44	mg/kg	11.885 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group		TPH		<38	mg/kg		<38	mg/kg	<0.0038 %		<LOD
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
19	pH		PH		7.01	pH		7.01	pH	7.01 pH		
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				0.05	mg/kg		0.0406	mg/kg	0.00000406 %	✓	
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				0.05	mg/kg		0.0406	mg/kg	0.00000406 %	✓	
		205-912-4	206-44-0									
27	pyrene				0.06	mg/kg		0.0487	mg/kg	0.00000487 %	✓	
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				0.03	mg/kg		0.0243	mg/kg	0.00000243 %	✓	
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		205-893-2	193-39-5									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
34		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
		601-041-00-2	200-181-8	53-70-3								
35	■	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD	
			205-883-8	191-24-2								
36		phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD	
		604-001-00-2	203-632-7	108-95-2								
37	■	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD	
			203-458-1, 200-863-5	107-06-2, 75-34-3								
38		carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD	
		602-008-00-5	200-262-8	56-23-5								
39		vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD	
		602-023-00-7	200-831-0	75-01-4								
Total:									12.014 %			

Key

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

Classification of sample: BH04[3]

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

Sample details

Sample Name:	LoW Code:
BH04[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
4.00 m	
Moisture content:	
35.4%	
(dry weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 1.445%)

Determinands

Moisture content: 35.4% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				4.7	mg/kg	1.32	4.583	mg/kg	0.000458 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		boron { diboron trioxide; boric oxide }				0.6	mg/kg	3.22	1.427	mg/kg	0.000143 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
3		cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
		048-002-00-0	215-146-2	1306-19-0									
4		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				37.5	mg/kg	1.462	40.479	mg/kg	0.00405 %	✓	
			215-160-9	1308-38-9									
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
		024-017-00-8											
6		copper { dicopper oxide; copper (I) oxide }				3	mg/kg	1.126	2.495	mg/kg	0.000249 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
7		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	9	mg/kg		6.647	mg/kg	0.000665 %	✓	
		082-001-00-6											
8		mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel sulfate }				75.9	mg/kg	2.637	147.802	mg/kg	0.0148 %	✓	
		028-009-00-5	232-104-9	7786-81-4									
10		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
		028-031-00-5	239-125-2	15060-62-5									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] } 030-006-00-9 231-793-3 [1] 7446-19-7 [1] 231-793-3 [2] 7733-02-0 [2]				4449	mg/kg	4.398	14450.792	mg/kg	1.445 %	✓	
12	TPH (C6 to C40) petroleum group TPH				<38	mg/kg		<38	mg/kg	<0.0038 %		<LOD
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
14	benzene 601-020-00-8 200-753-7 71-43-2				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
15	toluene 601-021-00-3 203-625-9 108-88-3				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
16	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
17	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
19	pH PH				9.61	pH		9.61	pH	9.61 pH		
20	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
21	acenaphthylene 205-917-1 208-96-8				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
22	acenaphthene 201-469-6 83-32-9				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23	fluorene 201-695-5 86-73-7				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
24	phenanthrene 201-581-5 85-01-8				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
25	anthracene 204-371-1 120-12-7				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
26	fluoranthene 205-912-4 206-44-0				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
27	pyrene 204-927-3 129-00-0				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
28	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
29	chrysene 601-048-00-0 205-923-4 218-01-9				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
30	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
33	indeno[123-cd]pyrene 205-893-2 193-39-5				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
34	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8 191-24-2				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
36	phenol 604-001-00-2 203-632-7 108-95-2				<0.15	mg/kg		<0.15	mg/kg	<0.000015 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
37	■	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD	
		203-458-1, 200-863-5	107-06-2, 75-34-3									
38		carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD	
		602-008-00-5	200-262-8	56-23-5								
39		vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD	
		602-023-00-7	200-831-0	75-01-4								
Total:								1.471 %				

Key

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

Classification of sample: WSTP04

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

Sample details

Sample Name:	LoW Code:	
WSTP04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.10-0.50 m		
Moisture content:		
83.6%		
(dry weight correction)		

Hazard properties

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

Hazard Statements hit:

STOT RE 2; H373 "May cause damage to organs [or state all organs affected, if known] through prolonged or repeated exposure [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

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:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 2; H361d "Suspected of damaging the unborn child."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 0.111%)

Aquatic Chronic 2; H411 "Toxic to aquatic life with long lasting effects."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

Hazard properties (substances considered hazardous until shown otherwise)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

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

Hazard Statements hit:

Asp. Tox. 1; H304 "May be fatal if swallowed and enters airways."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 12.448%)

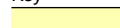
Determinands

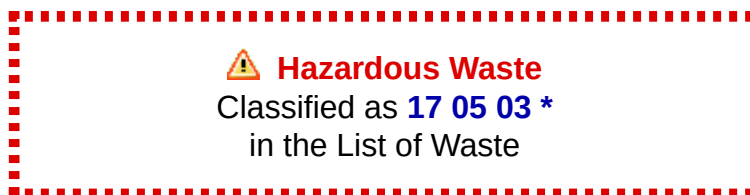
Moisture content: 83.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				75.4	mg/kg	1.32	54.223	mg/kg	0.00542 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				<0.1	mg/kg	3.22	<0.322	mg/kg	<0.0000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.124	mg/kg	0.0000124 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				725.4	mg/kg	1.462	577.458	mg/kg	0.0577 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				203	mg/kg	1.126	124.485	mg/kg	0.0124 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1585	mg/kg		863.29	mg/kg	0.0863 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				0.9	mg/kg	1.353	0.663	mg/kg	0.0000663 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				111.5	mg/kg	2.637	160.125	mg/kg	0.016 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				2	mg/kg	2.554	2.782	mg/kg	0.000278 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				463	mg/kg	4.398	1109.063	mg/kg	0.111 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				228537	mg/kg		124475.49	mg/kg	12.448 %	✓	
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
14	benzene				<0.025 mg/kg		<0.025 mg/kg	<0.0000025 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.015 mg/kg		<0.015 mg/kg	<0.0000015 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				6 mg/kg	1.884	6.157 mg/kg	0.000616 %		✓	
	006-007-00-5										
19	pH				3.98 pH		3.98 pH	3.98 pH			
			PH								
20	naphthalene				<0.8 mg/kg		<0.8 mg/kg	<0.00008 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				2.35 mg/kg		1.28 mg/kg	0.000128 %		✓	
		205-917-1	208-96-8								
22	acenaphthene				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
		201-469-6	83-32-9								
23	fluorene				3.85 mg/kg		2.097 mg/kg	0.00021 %		✓	
		201-695-5	86-73-7								
24	phenanthrene				5.89 mg/kg		3.208 mg/kg	0.000321 %		✓	
		201-581-5	85-01-8								
25	anthracene				5.11 mg/kg		2.783 mg/kg	0.000278 %		✓	
		204-371-1	120-12-7								
26	fluoranthene				10.58 mg/kg		5.763 mg/kg	0.000576 %		✓	
		205-912-4	206-44-0								
27	pyrene				22.49 mg/kg		12.249 mg/kg	0.00122 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				4.66 mg/kg		2.538 mg/kg	0.000254 %		✓	
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				16.54 mg/kg		9.009 mg/kg	0.000901 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				14.08 mg/kg		7.669 mg/kg	0.000767 %		✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				5.47 mg/kg		2.979 mg/kg	0.000298 %		✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				3.58 mg/kg		1.95 mg/kg	0.000195 %		✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				6.04 mg/kg		3.29 mg/kg	0.000329 %		✓	
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.8 mg/kg		<0.8 mg/kg	<0.00008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				6.04 mg/kg		3.29 mg/kg	0.000329 %		✓	
		205-883-8	191-24-2								
36	phenol				0.24 mg/kg		0.131 mg/kg	0.0000131 %		✓	
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<30 mg/kg		<30 mg/kg	<0.003 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	carbon tetrachloride; tetrachloromethane				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
39	vinyl chloride; chloroethylene				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
	602-023-00-7	200-831-0	75-01-4								
Total:									12.75 %		

Key

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

Classification of sample: WSTP04[2]

Sample details

Sample Name:	LoW Code:	
WSTP04[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.20-1.70 m		
Moisture content:		
24.7%		
(dry weight correction)		

Hazard properties

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

Hazard Statements hit:

Eye Dam. 1; H318 "Causes serious eye damage."

Because of determinand:

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 10.221%)

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

Hazard Statements hit:

Carc. 1A; H350i "May cause cancer by inhalation."

Because of determinand:

nickel sulfate: (compound conc.: 0.125%)

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:

nickel sulfate: (compound conc.: 0.125%)

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 10.221%)

Determinands

Moisture content: 24.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6 mg/kg	1.32	6.353 mg/kg	0.000635 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.5 mg/kg	3.22	1.291 mg/kg	0.000129 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.183 mg/kg	0.0000183 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26.5 mg/kg	1.462	31.06 mg/kg	0.00311 %	✓	
		215-160-9	1308-38-9							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				7	mg/kg	1.126	6.32	mg/kg	0.000632 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	49	mg/kg		39.294	mg/kg	0.00393 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				590	mg/kg	2.637	1247.509	mg/kg	0.125 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				28980	mg/kg	4.398	102206.812	mg/kg	10.221 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group		TPH		96	mg/kg		76.985	mg/kg	0.0077 %	✓	
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
19	pH		PH		6.88	pH		6.88	pH	6.88 pH		
20	naphthalene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
25	anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-912-4	206-44-0									
27	pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		204-927-3	129-00-0									
28	benzo[a]anthracene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
	601-048-00-0	205-923-4	218-01-9									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
30		benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2							
31		benzo[k]fluoranthene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
32		benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-032-00-3	200-028-5	50-32-8							
33	■	indeno[123-cd]pyrene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
			205-893-2	193-39-5							
34		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
35	■	benzo[ghi]perylene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
			205-883-8	191-24-2							
36		phenol				<0.15 mg/kg		<0.15 mg/kg	<0.000015 %		<LOD
		604-001-00-2	203-632-7	108-95-2							
37	■	1,1-dichloroethane and 1,2-dichloroethane (combined)				<6 mg/kg		<6 mg/kg	<0.0006 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3							
38		carbon tetrachloride; tetrachloromethane				<4 mg/kg		<4 mg/kg	<0.0004 %		<LOD
		602-008-00-5	200-262-8	56-23-5							
39		vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
		602-023-00-7	200-831-0	75-01-4							
Total:									10.363 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0077%)

Classification of sample: WSTP03


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

Sample details

Sample Name:	LoW Code:
WSTP03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.00-0.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
29.2%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 29.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				3.8	mg/kg	1.32	3.883	mg/kg	0.000388 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide; boric oxide }				0.8	mg/kg	3.22	1.994	mg/kg	0.000199 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				<0.1	mg/kg	1.142	<0.114	mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				894.3	mg/kg	1.462	1011.664	mg/kg	0.101 %	✓	
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.3	mg/kg	2.27	<0.681	mg/kg	<0.0000681 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				16	mg/kg	1.126	13.943	mg/kg	0.00139 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	308	mg/kg		238.39	mg/kg	0.0238 %	✓	
	082-001-00-6											
8	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel sulfate }				77.4	mg/kg	2.637	157.956	mg/kg	0.0158 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				367	mg/kg	4.398	1249.256	mg/kg	0.125 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				146	mg/kg		113.003	mg/kg	0.0113 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.006 mg/kg		<0.006 mg/kg		<0.0000006 %		<LOD
14	benzene 601-020-00-8 200-753-7 71-43-2				<0.005 mg/kg		<0.005 mg/kg		<0.0000005 %		<LOD
15	toluene 601-021-00-3 203-625-9 108-88-3				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
16	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
17	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.004 mg/kg		<0.004 mg/kg		<0.0000004 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				15.6 mg/kg	1.884	22.748 mg/kg		0.00227 %	✓	
19	pH PH				5.2 pH		5.2 pH		5.2 pH		
20	naphthalene 601-052-00-2 202-049-5 91-20-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
21	acenaphthylene 205-917-1 208-96-8				<0.03 mg/kg		<0.03 mg/kg		<0.000003 %		<LOD
22	acenaphthene 201-469-6 83-32-9				<0.05 mg/kg		<0.05 mg/kg		<0.000005 %		<LOD
23	fluorene 201-695-5 86-73-7				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
24	phenanthrene 201-581-5 85-01-8				0.09 mg/kg		0.0697 mg/kg		0.00000697 %	✓	
25	anthracene 204-371-1 120-12-7				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
26	fluoranthene 205-912-4 206-44-0				0.14 mg/kg		0.108 mg/kg		0.0000108 %	✓	
27	pyrene 204-927-3 129-00-0				0.13 mg/kg		0.101 mg/kg		0.0000101 %	✓	
28	benzo[a]anthracene 601-033-00-9 200-280-6 56-55-3				0.09 mg/kg		0.0697 mg/kg		0.00000697 %	✓	
29	chrysene 601-048-00-0 205-923-4 218-01-9				0.08 mg/kg		0.0619 mg/kg		0.00000619 %	✓	
30	benzo[b]fluoranthene 601-034-00-4 205-911-9 205-99-2				0.1 mg/kg		0.0774 mg/kg		0.00000774 %	✓	
31	benzo[k]fluoranthene 601-036-00-5 205-916-6 207-08-9				0.04 mg/kg		0.031 mg/kg		0.0000031 %	✓	
32	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 200-028-5 50-32-8				0.06 mg/kg		0.0464 mg/kg		0.00000464 %	✓	
33	indeno[123-cd]pyrene 205-893-2 193-39-5				0.05 mg/kg		0.0387 mg/kg		0.00000387 %	✓	
34	dibenz[a,h]anthracene 601-041-00-2 200-181-8 53-70-3				<0.04 mg/kg		<0.04 mg/kg		<0.000004 %		<LOD
35	benzo[ghi]perylene 205-883-8 191-24-2				0.06 mg/kg		0.0464 mg/kg		0.00000464 %	✓	
36	phenol 604-001-00-2 203-632-7 108-95-2				<0.15 mg/kg		<0.15 mg/kg		<0.000015 %		<LOD
37	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5 107-06-2, 75-34-3				<6 mg/kg		<6 mg/kg		<0.0006 %		<LOD
38	carbon tetrachloride; tetrachloromethane 602-008-00-5 200-262-8 56-23-5				<4 mg/kg		<4 mg/kg		<0.0004 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
39	vinyl chloride; chloroethylene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.283 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Samples with detectable concentrations of TPH are initially classed as Hazardous within the model on account of HP 3(i); 'Flammable liquid waste' defined as 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). The flammability risk of the materials can only be confirmed by means of flash point testing, which was not undertaken as part of the ground investigation. However, the hazardous property HP3(i) relates to liquid waste and the materials sampled were solid soils. In addition, sampling records and logs indicate that no free product, liquid hydrocarbons or any other visual or olfactory evidence of hydrocarbon contamination were observed during the sampling campaign (with the exception of TP06 and WSTP04). In order to assess the Hazard HP3, the 'decision tree' presented in the WM3 guidance for 'Waste soil' in relation to Hazard HP 3 was followed. The assessment process indicated that the Hazard Property HP 3(i) in the samples with detectable TPH can be discounted by virtue of HP 3(i) and a non-hazardous class is considered most appropriate.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0113%)

Appendix A: Classifier defined and non CLP determinands

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

CLP index number: 082-001-00-6

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

Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)

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

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015**■ TPH (C6 to C40) petroleum group** (CAS Number: TPH)

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

CLP index number: 601-023-00-4

Description/Comments:

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

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

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

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

CLP index number: 006-007-00-5

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

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

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

Reason for additional Hazards Statement(s):

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

■ pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

Hazard Statements: 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

■ **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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

boron {diboron trioxide; boric oxide}

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

cadmium {cadmium oxide}

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

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

CrVI < LOD in all samples analysed from the site

mercury {mercury dichloride}

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

nickel {nickel sulfate}

CrVI < LOD in all samples analysed from the site

selenium {nickel selenate}

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

zinc {zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]}

CrVI < LOD in all samples analysed from the site

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)

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2021.77.4714.9046 (18 Mar 2021)

HazWasteOnline Database: 2021.77.4714.9046 (18 Mar 2021)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

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

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

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

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

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

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

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

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

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

Revised List of 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 2019 - UK: 2019 No. 720 of 27th March 2019

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

POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019