

# **Project North Stand Manchester**

## **Generic Quantitative Risk Assessment**

**NSE-BHE-XX-XX-RP-CG-000003**

**0053810**

13 April 2023

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## Executive Summary

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background</b>                    | The purpose of this Study is to describe the environmental, geological, hydrological and hydrogeological conditions present at the Site and assesses the potential ground contamination risks associated with the proposed development. That proposed development includes alterations to the Etihad Stadium (increasing the capacity of the north stand) together with the construction of two new buildings (a hotel and a workspace with a football museum and enhanced City Shop) to the north of the Stadium.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Site Setting</b>                  | The Site covers some 3.5 ha and is located north of Manchester City Football Club Stadium. It is centred on National Grid Reference SJ 86784 98665 within the remit of Manchester City Council. The Stadium, City Shop and surrounding infrastructure currently occupy the Site. To the north are Ashton Canal, Joe Mercer Way with the new Co-op Live arena to the east and the Manchester Tennis and Football Centre to the west. Beyond these is Sportcity Way. To the south is the remainder of the Manchester City Football Club Stadium.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>History</b>                       | From the 1840s the Site was mainly fields with several tracks leading to a structure (use unknown) in the northeast. The southwest part of the site was occupied by Manchester and Salford Water Works Reservoir. By the 1890s significant industrial development had taken place across the Site, including the Bradford Iron Works and associated infrastructure (rail lines). By 1905 the gas works was developed to the north. Between the 1930s and 1940s there were no significant changes to the Site. In the 1950s, some of the residential areas in the north were cleared (possible bomb damage). By the 1970s the north of the Site had been redeveloped from residential to industrial (works). In the 1980s the northern area was cleared of buildings and the Iron Works closed in 1986. The Site was almost completely cleared by the 1990s and a stadium constructed (for the Commonwealth Games) in the early 2000s with subsequent re-purposing for Manchester City FC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Geological Setting</b>            | The natural geology beneath the Site comprises Carboniferous Pennine Upper Coal Measures (at about +45mOD), overlain by approximately 11m of Glacial Till. These natural strata are overlain by Made Ground encountered to varying depths (between 3m and 8m). Typically, the top 0.4m of the Made Ground was a light concrete and limestone gravel (an imported Type-1 style material). Occasionally a geotextile was identified that separated this material from the underlying Made Ground, a brown and grey sandy gravel, or gravelly clay, containing brick, concrete, clinker, and rarely glass. Strong hydrocarbon odours were recorded in several locations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Site Investigation</b>            | An intrusive site investigation was carried out in December 2022 with a programme of post field monitoring completed in February 2023. The investigation comprised eight cable percussion boreholes with rotary follow on taken to a maximum depth of 65m bgl. Three windowless sample holes were drilled through the shallow Made Ground. Five machine excavated trial pits were excavated to depths between 3 and 4m. Three observation trenches were completed using vacuum excavation techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Contamination Risk Assessment</b> | <p>A total of 59 soil samples were scheduled for chemical analysis. No concentrations above commercial / industrial thresholds were recorded for any inorganic and organic determinands. Occasional samples recorded concentrations of some inorganic determinands (namely lead and arsenic) above residential thresholds. Approximately half of the samples recorded concentrations of particular PAHs above residential thresholds. About 30% of the samples recorded concentrations of petroleum hydrocarbons above the averaged residential threshold.</p> <p>Suspected asbestos containing materials (ACM) were not observed during the ground investigation but were identified by microscope in the laboratory in 16% of samples. Quantification analysis showed about 1/3 of samples with concentrations below the limit of quantification (&lt;0.001%), with the remaining 2/3 with concentrations above 0.001% but well below the hazardous waste threshold (0.1%).</p> <p>Concentrations of some determinands in groundwater have been recorded above environmental and drinking water thresholds. However, the analytical data showed no evidence of significant contamination in either the shallow or the deep aquifers. The perched water table (within the Made Ground) is separated from the underlying Secondary Aquifer (within the Coal Measures) by some 11m of Glacial Till. Accordingly, although the groundwater in the Coal Measures is degraded to some degree, this would appear to be a regional issue and is not attributable to a contaminant source on the Site.</p> <p>The ground gas regime has been assessed as Characteristic Situation 1 (Low Risk) and is broadly comparable to the assessment completed in 2014. Therefore, no mitigation is required to protect against potentially hazardous ground gas accumulation.</p> <p>Waste characterisation showed that the majority of Made Ground was classified as potentially Non-Hazardous Waste (92% of dataset). The remaining 8% of samples were assessed as potentially Hazardous Waste (due to elevated TPH and zinc oxide).</p> |

**Conclusions and  
Recommendations**

No significant geoenvironmental risks have been identified which would require further investigation prior to the enabling works / construction. The potential risks to the Contractors workforce engaged in earthworks, are capable of mitigation by the adoption of an appropriate good standard of health, safety and hygiene regime. Soft landscape areas will be constructed with an appropriate thickness of suitable sub soils and topsoil. However, there is a potential for contamination to be present and not to have been encountered by this investigation, in particular beneath the existing City Shop. This potential for unforeseen contamination should be taken into account in the contractor's method statements etc. for any below ground works. Any suspect materials should be sampled and subject to chemical analysis and appropriate recommendations regarding the need for and scope of any remedial actions sought from an appropriate specialist.

Based on the findings of the ground investigation and the nature of the remediation that has already taken place across the Site, the proposed works being carried can be completed under CDM regulations without the need for a formal Remediation Strategy. In order to demonstrate the works are completed in line with CDM regulations, a short report will be prepared that collates all the evidence to demonstrate standard good construction practice was implemented, spoil was appropriately disposed of, and no unexpected contamination was encountered. This will be the responsibility of the Principal Contractor undertaking the works and shall be documented within their Health and Safety File upon completion of the proposed works.

# 1 Introduction

## 1.1 Background and commission

This report presents the results of a ground investigation and associated Generic Quantitative Risk Assessment (GQRA) for Project North Stand Manchester. It was prepared by Buro Happold on behalf of Manchester City Football Club. The report establishes the environmental, geological, hydrological and hydrogeological conditions at the Site and assesses the potential ground contamination risks for the proposed works.

The Site boundary for planning purposes changed following the initial instruction for the work. Therefore, some drawings presented within this report may include a slightly different Site boundary to that shown in Figure 1-1.

The Site covers some 3.5 ha and is located north of Manchester City Football Club Stadium (Figure 1-1). It is centred on National Grid Reference SJ 86784 98665 within the remit of Manchester City Council. The Stadium, City Shop and surrounding infrastructure currently occupy the Site. To the north are Ashton Canal and Joe Mercer Way, with the new Co-op Live arena to the east and the Manchester Tennis and Football Centre to the west. Beyond these is Sportcity Way. To the south is the Manchester City Football Club Stadium.

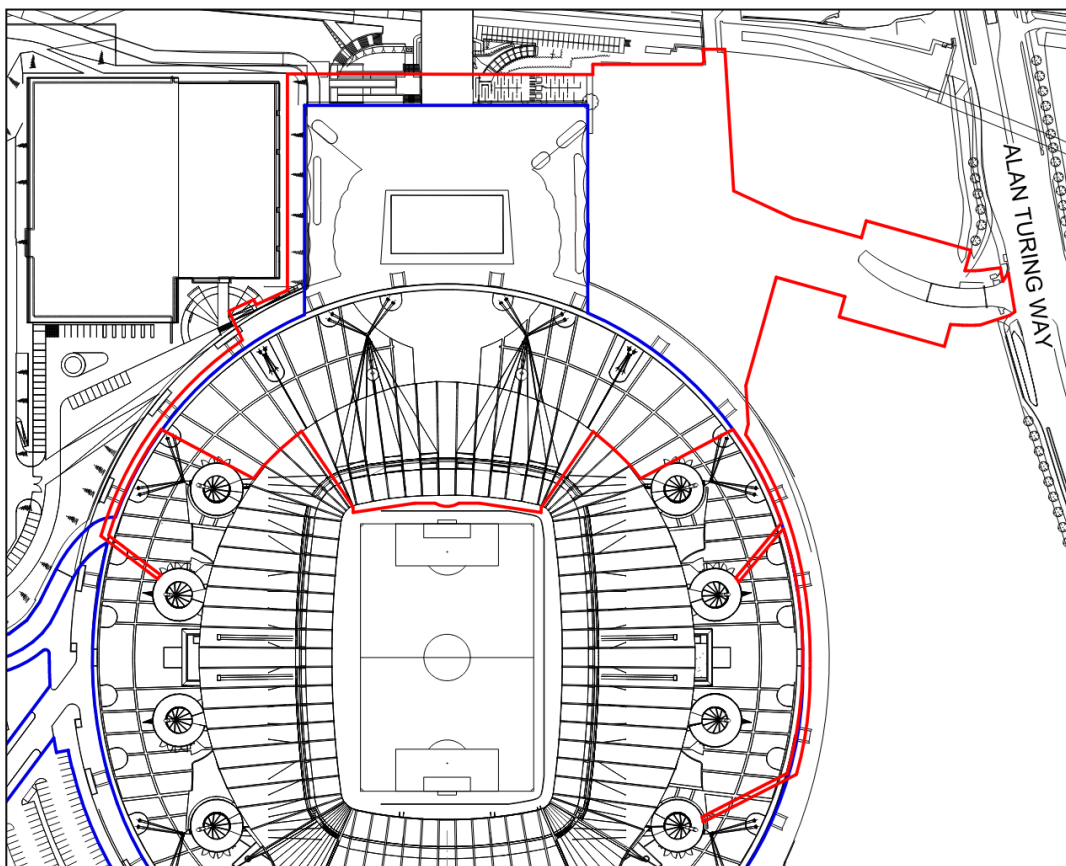


Figure 1-1 Extent of site (red line)

## 1.2 Aims and objectives

The aim of the ground investigation was to assess the geological, geotechnical and geoenvironmental conditions for the Site. This report considers the geoenvironmental aspects of the investigation, describes the conceptual site model and presents a generic quantitative assessment of contamination related risks associated with the proposed works.

## 1.3 Scope of works

To achieve the above aims, the objectives of the investigation at the Site were to provide information on the:

- ground model and groundwater regime;
- location, nature and extent of contamination within the Made Ground and underlying natural strata;
- nature and extent of contamination within controlled waters;
- ground gas and vapour regime to enable an outline assessment of the potential risks associated with hazardous gases and vapours;

The objectives of the report are:

- To identify any constraints associated with the ground and/or below ground infrastructure on the basis of available general information;
- To assess potential risks to people and the environment (natural and built) associated with ground contamination (solid, liquid or gas); and
- To provide recommendations and outline scope, if necessary, for further works such as intrusive ground investigation and / or remedial action or design.

This report also provides information relevant for the proposed development in accordance with the requirements of the National Planning Policy Framework (NPPF) [1] and also with respect to potential liability under Part 2a of the Environmental Protection Act 1990. The work was carried out in general accordance with the Environment Agency (EA) Contaminated Land Risk Management [2], the relevant British Standards (BS) [3] & [4] the EA Guiding Principles for Land Contamination [5], Groundwater Protection Policy [6] and other current good practice guidance.

## 1.4 Information sources

The principal sources of historic information were taken from the Desk Study [7] and the Coal Mining Risk Assessment [8]. Other previous reports (including historical ground investigations) are summarised within these reports. This current report is therefore based upon information obtained these third-party sources, together with data obtained from the recent ground investigation (undertaken between December 2022 and February 2023). The third-party data has been accepted at face value and has not been independently verified. Buro Happold can therefore give no warranty, representation or assurance as to the accuracy or completeness of such information.

## 1.5 Competencies

The work reported here was carried out by an appropriately qualified geoenvironmental scientist and geotechnical engineers with relevant qualifications, training and experience. The work has been overseen by a Technical Director with experience in the assessment of land affected by contamination who is a Chartered Geologist and a registered SiLC (Specialist in Land Contamination) and SQP (Suitably Qualified Person).

## 1.6 Limitations

The scope and design of the ground investigation has reflected the known history of Site use, the results of previous studies and investigations. On this basis the spacing of the exploratory holes and the sampling and analysis plan for this investigation are considered to have provided a reasonable level of certainty about the ground conditions. However, some parts of the Site have not been subject to recent intrusive ground investigation due to the presence of existing operational buildings, infrastructure and later alterations to the Site boundary.

No investigation, however comprehensive, can be expected to determine absolutely the nature and variation of all the geology or contamination which could be present on any site. There will always be an element of uncertainty about the ground conditions including contamination. This potential for currently undetected contamination or variations in geology, together with the gaps in the investigation set out above, must therefore be taken into account not only in the risk assessment presented here but also in consideration of future development activities, for example, health and safety planning, financial planning and risk management and in the implementation of the below ground works during construction.

## 2 Site Setting

### 2.1 Information sources

The Site setting has been informed from various sources of information listed below, it is recommended that the reader is fully cognisant with the original reports.

Desk Studies and Interpretative Reports:

- 2023 Buro Happold Ground Engineering Desk Study [7]
- 2022 Buro Happold Coal Mining Risk Assessment [8]
- 2014 Buro Happold Preliminary Risk Assessment [9]
- 2010 Ove Arup & Partners Ltd Geotechnical Interpretative Report [10] and Constraints Report [11]

Ground Investigation Reports:

- 2020 CC Geotechnical Ltd Ground Investigation Factual Report [12]
- 2014 ESG Factual and Ground Conditions Report [13]
- 2010 May Gurney Site Investigation Factual Report [14]
- 1999 Norwest Holst Soil Engineering Ltd Ground Investigation Report [15]
- 1995 Northern Foundations Ltd Site Investigation Report [16]
- 1991 Northern Foundations Ltd various borehole logs and drawings [17]

Remediation and Validation Reports:

- 2011 Buckingham Group Contracting Ltd Remediation Strategy [18], Verification Report [19]
- 2011 BWB Consulting Ltd Mine Stabilisation Validation Reports [20], [21], [22] and Earthworks Validation Report [23]
- 2010 Ove Arup & Partners Ltd Outline Remediation Strategy [24]
- 2004 Ove Arup & Partners Ltd Validation Report [25]
- 2000 McAlpine Completion Report [26]

### 2.2 Site history

The following summary of the Site history has been derived from the previous Desk Study report [7] and Coal Mining Risk Assessment [8]. Appropriate cross reference should be made to these reports for the detailed information.

From the 1840s the Site was shown as fields with several tracks passing through, these all led to a structure in the central-east. Southwest of the Site (adjacent) was occupied by Manchester and Salford Water Works Reservoir. To the south was Bradford Colliery and associated coal pits. To the east the Colliery Arm (an extension of the canal) and Bradford Mill. To the north was Ashton Canal. By the 1890s, significant industrial development took place to the Site (and area), including Bradford Iron Works and associated infrastructure (rail lines), Albion Works and various other mills and rail land. By 1905 the gas works was developed to the north. Between the 1930s and 1940s there were no significant changes to the Site. By the 1950s some of the residential buildings were no longer present (namely those between Middlewood Street, Eldon Street, Beswick Street, Woolton Street and Thornbury Street).

By the 1970s the north of the Site was entirely redeveloped from residential to industrial (works). Complete redevelopment of the Site took place in the 1980s. Clearance of the Site took place in the 1990s followed by the

construction of the Stadium for the Commonwealth Games in the early 2000s. The areas surrounding the Stadium have been subject to some remediation over more recent years (2000 and 2010), including lime stabilisation in the eastern part.

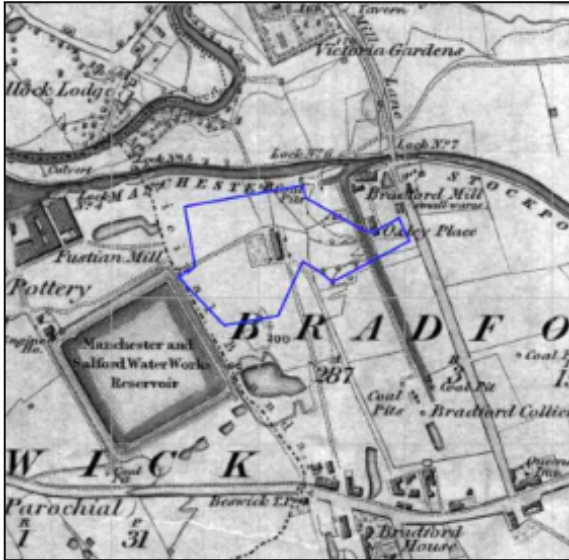


**Figure 2-1 – Extract of 1848 map from the Groundsure report.**

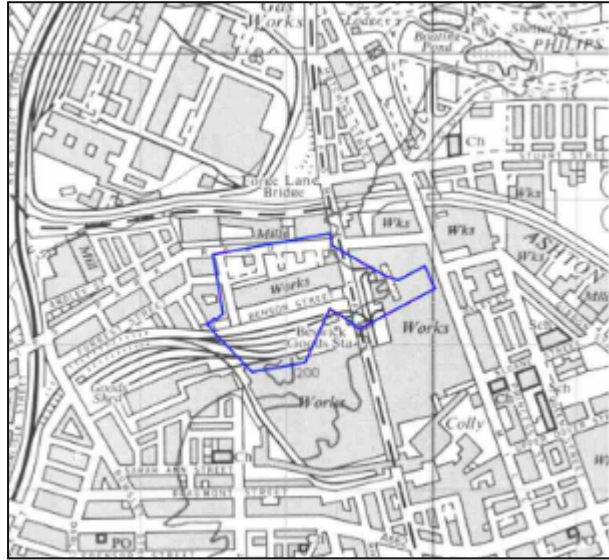


**Figure 2-2 – Extract of 1968 map from the Groundsure report.**

### 2.3 Proposed development

The proposed development includes alterations to the Etihad Stadium, increasing the overall capacity of the north stand. North of the Stadium, two new buildings will be constructed, one will be a hotel and the other a workspace with a football museum and enhanced City Shop. A covered fan zone area referred to as City Square will also be provided as part of the proposals. The development landscaping arrangement includes areas of wildflower and understorey planting, artificial turf, SUDs planters and above ground planters (see Figure 2-3). The formal description of the proposed development and further detail on the proposals can be found in the planning statement and planning application form, both of which accompany the planning application.

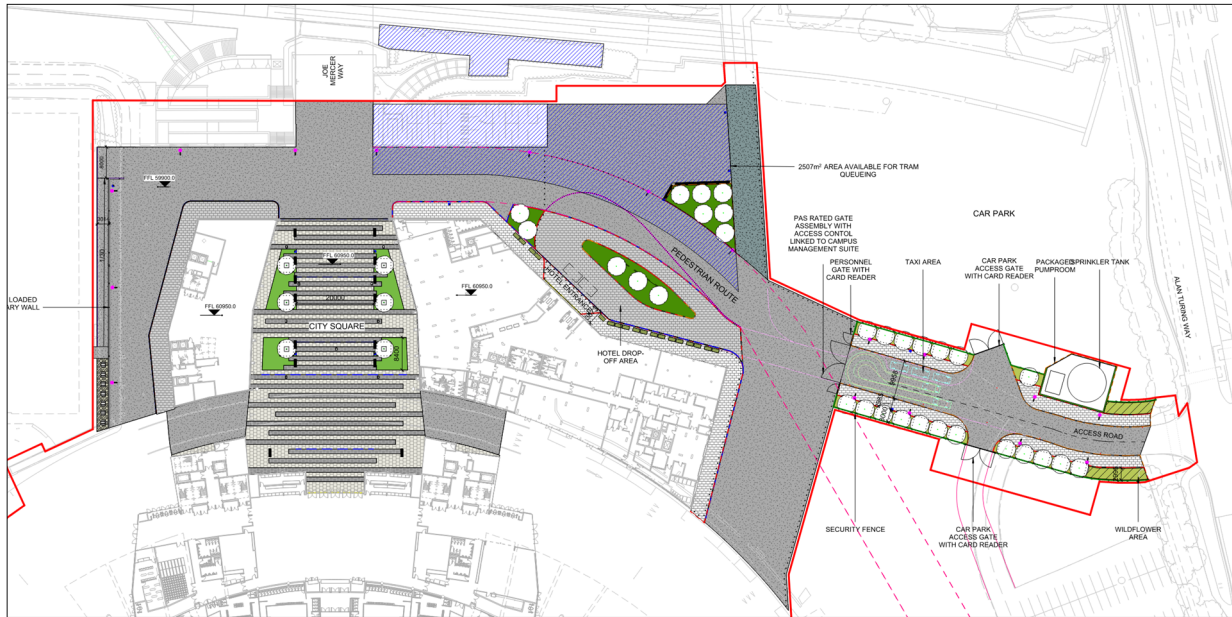


Figure 2-3 General arrangement of proposed landscaping

## 2.4 Anticipated ground model

Previous ground investigation information (listed above in Section 2.1) and the available geological maps [27], [28] indicate the Site is underlain by variable thickness of Made Ground (up to approximately 5m) over Glacial Till (approximately 10m thick), which is then underlain by the Carboniferous Pennine Upper Coal Measures. The Charlotte Seam and Openshaw Seam both sub-crop at the Site which is located within a coal mining area, with an extensive history of coal extraction.

## 2.5 Unexploded ordnance

A detailed UXO risk assessment was completed by a specialist UXO consultant 6 Alpha Associates [29], the conclusions of which advise the Site to be at Low risk from UXO.

## 3 Preliminary Risk Assessment

### 3.1 Preliminary Conceptual Site Model

The preliminary conceptual site model is described in the desk study report [7], summarised below and in Table 3-1 overleaf. The potential contamination sources are associated with the former uses of the Site. The receptors relevant to this current project are human health (construction workers, site neighbours), controlled waters (Secondary Aquifer, River Medlock) and the built environment (including soft landscaping). The Ashton Canal was also not considered within the assessment as there is no plausible pathway that could impact this sensitive receptor. The Canal is likely to be bunded by low permeability materials (clay) and the presence of the deeper Metrolink cutting will inhibit any contamination migration between the Site and the Canal.

Table 3-1 Summary of preliminary risk assessment

| Hazard to Receptor [bold text] / Pathway<br>[normal text]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Risk Assessment (following CIRIA C552) |                |                | Comment on hazard realisation [normal text] and mitigation measures [bold text]                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Consequence                            | Probability    | Risk           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description of source:</b> Rectangular building and associated feature (water feature?) present on Site in the 1840s, remainder occupied by fields. Manchester and Salford Water Works Reservoir with several other water features, a Pottery and Fustian Mill present to SW. Bradford Colliery and associated coal pits to S. Colliery Arm (canal) and Bradford Mill to E and Ashton Canal to N. By 1890s Site (and local area) significantly developed by industry (including Bradford Iron works, Albion Works, various other mills, railway land, Beswick Goods Station and residential housing) - Reservoir and other water features presumed infilled). Bradford Road Gas Works developed early 1900s, continued to expand to 1980/90s when demolished and site cleared. Commonwealth Games Stadium constructed in early 2000s. Areas surrounding Stadium subject to some remediation (2000 and 2010), including lime stabilisation in E. Ground investigations (2013-14 confirmed presence of approx. 5m of Made Ground with various anthropogenic inclusions (brick, concrete, ash and coal etc.) and slightly elevated contaminant concentrations (including asbestos – trace levels). |                                        |                |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Human health impacts to investigation / construction workers</b><br><br>Direct contact and dermal uptake, soil and dust ingestion and inhalation during construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Medium                                 | Low likelihood | Moderate / Low | Potential for exposure during investigations / earthworks. Period of exposure dependent on construction timescales but not long term (i.e. relevant to acute rather than chronic exposure). Standard Health and Safety precautions likely to be used by workers.<br><br><b>Mitigation of potential risks can be achieved by appropriate investigation and adoption of standard good construction practice.</b>                                        |
| <b>Human health impacts to future Site users / visitors (guests and maintenance)</b><br><br>Direct /dermal contact. Inhalation of soils / dusts. Ingestion of contaminated water supplies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Medium                                 | Unlikely       | Low            | Proposed future use will comprise mostly hard landscaping (and soft landscaping likely to be raised within planters). Limited potential for dust generation, direct contact and ingestion in any areas of soft landscaping and exposure time likely to be limited.<br><br><b>Mitigation of potential risks can be achieved by appropriate investigation / design and implementation of remediation / mitigation measures including encapsulation.</b> |
| <b>Site neighbours</b><br><br>Inhalation / ingestion of dust during construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Medium                                 | Unlikely       | Low            | Enabling works have the potential to impact surrounding users by dust generation. Increased potential during any earthworks and short distance to nearest neighbours.<br><br><b>Mitigation of potential risks can be achieved by appropriate investigation and adoption of standard good construction practice.</b>                                                                                                                                   |

| Hazard to Receptor [bold text] / Pathway<br>[normal text]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Risk Assessment (following CIRIA C552) |                |                | Comment on hazard realisation [normal text] and mitigation measures [bold text]                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Consequence                            | Probability    | Risk           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Degradation of water quality (Secondary Aquifer)</b><br>Migration via permeable strata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mild                                   | Low likelihood | Low            | Potential for increased infiltration and promotion of leaching during enabling works. Secondary Aquifer present within the Coal Measures, beneath a substantial thickness (>10m) of low permeability Glacial Till. Deep piling could create preferential migration pathways.<br><b>Mitigation of potential risks could be achieved by appropriate investigation, risk assessment and design.</b>                                                                                                                    |
| <b>Degradation of water quality (River Medlock)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Medium                                 | Unlikely       | Low            | Potential for increased infiltration and promotion of leaching during enabling works. River Medlock located 176m northwest of the Site, however located within a culvert. Nearest entrance to the Medlock is >300m west.<br><b>Mitigation of potential risks could be achieved by appropriate investigation, risk assessment and design.</b>                                                                                                                                                                        |
| <b>Built environment</b><br>Direct contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Medium                                 | Low likelihood | Moderate / Low | Potential for direct contact on development Site.<br><b>Mitigation of potential risks can be achieved by appropriate investigation / design and implementation of appropriate design.</b>                                                                                                                                                                                                                                                                                                                           |
| <p><b>Description of source:</b> Manchester and Salford Water Works Reservoir occupied a large area to the southwest (and part of the Site) of the Site in early 1800s but no longer recorded by 1890s (presumably infilled). In addition, Colliery Canal Arm located to the east, was largely developed over by the Bradford Iron Works, and no longer shown by the late 1960s (presumably infilled). Remediation of the canal arm took place in 2010, removing hydrocarbon impacted material.</p> <p>The Site is also underlain by Coal Measure strata, which has been heavily mined. There are numerous shafts within the vicinity of the Site, most of which have been located and capped. There is a potential for unrecorded shafts / workings that could form preferential migration pathways of mine gas.</p> |                                        |                |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Human health impacts to investigation / construction workers</b><br>Asphyxiation from hazardous ground gases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Severe                                 | Unlikely       | Moderate / Low | Potential for inhalation of hazardous gases generated from surrounding areas of infilled land, underlying Made Ground and /or preferential pathways (i.e. shafts) from the underlying Coal Measures. Exposure time relatively limited and poorly ventilated spaces unlikely to be encountered.<br><b>Mitigation of potential risks can be achieved by appropriate investigation and adoption of standard good construction practice.</b>                                                                            |
| <b>Future Site users / visitors (residents, guests and maintenance)</b><br>Asphyxiation from hazardous ground gases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Severe                                 | Unlikely       | Moderate / Low | Proposed future use will comprise mostly hard landscaping (and soft landscaping likely to be raised within planters). Potential for inhalation of hazardous gases generated from surrounding areas of infilled land, underlying Made Ground and /or preferential pathways (i.e. shafts) from the underlying Coal Measures. Exposure time relatively limited.<br><b>Mitigation of potential risks can be achieved by appropriate investigation / design and implementation of remediation / mitigation measures.</b> |

## 4 Ground Investigation

### 4.1 Objectives

The scope of the ground investigation was designed to meet the aims and objectives set out in Chapter 1. The investigation was designed and supervised (part-time) by Buro Happold with contractor services provided by Geotechnical Engineering Limited (GEL). [Note: The contractor's factual data and the geotechnical aspects will be reported under separate cover in due course].

### 4.2 Investigation scope

The scope of the ground investigation works included the following:

- 8 No. boreholes to depths between 45m and 65m bgl, constructed by cable percussion with rotary follow on;
- 3 No. windowless sample holes through the Made Ground (initially trial pits but owing to Site constraints altered to windowless sample holes);
- 5 No. machine excavated trial pits to depths between 3m and 4m bgl, through the Made Ground;
- 5 No. vacuum excavated observation trenches to depths between 2m and 3m bgl, to identify services;
- 8 No. static Cone Penetration Testing (CPT)
- 2 No. In situ California Bearing Ratio (CBR) tests;
- Standard Penetration Testing (SPTs);
- Downhole geophysics in selected locations;
- Standpipe installations within all borehole and window sample locations;
- Geotechnical and geoenvironmental laboratory testing; and
- Groundwater and ground gas monitoring (including a six-round post fieldwork monitoring programme).

### 4.3 Encountered Ground Conditions

The ground conditions encountered on the Site are summarised below in Table 4-1.

**Table 4-1 Encountered geological conditions**

| Strata       | Description                                                                                                                                                                                                                                                                                                                                                                            | Top of Strata |                     | Thickness<br>(average) m |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|--------------------------|
|              |                                                                                                                                                                                                                                                                                                                                                                                        | m BGL         | m OD                |                          |
| Made Ground  | Tarmac across the majority of the Site (with the exception of those locations in the east).                                                                                                                                                                                                                                                                                            | 0.0           | +60.55 to<br>+62.4  | 0.1                      |
|              | Light grey concrete and limestone GRAVEL (Type 1 material). Occasionally a geotextile identified separating this material from the underlying Made Ground (generally recorded between 0.3 – 0.5m bgl).                                                                                                                                                                                 | 0.1           |                     | 0.15 – 0.4<br>(0.2)      |
|              | Brown to dark grey silty sandy GRAVEL or sandy gravelly CLAY. Gravel is fine to coarse, subangular to subrounded, brick, concrete, sandstone, limestone, quartzite, clinker, rare glass and metal.<br>Occasional concrete and brick obstructions. Occasional hydrocarbon odours. Material was frequently hard to excavate due to lime stabilisation from previous remedial activities. | 0.3-0.5       |                     | 3.0 – 8.0<br>(4.8)       |
| Glacial Till | Soft to firm light grey mottled light brown slightly sandy silty CLAY. Stiff becoming very stiff brown to grey slightly sandy slightly gravelly CLAY.                                                                                                                                                                                                                                  | 3.0 – 8.0     | +53.05 to<br>+57.75 | 9.7 – 12.6<br>(11.4)     |

| Strata        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                 | Top of Strata  |                   | Thickness<br>(average) m |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|--------------------------|
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                             | m BGL          | m OD              |                          |
| Coal Measures | Extremely weak to weak light grey to dark grey MUDSTONE. Bedding fractures are sub-horizontal to 20° and sub-vertical to 80°. Mudstone becomes carbonaceous and occasionally tends to black pyritic COAL. Moderately weak grey SILTSTONE, locally with thin interlaminated mudstone. Moderately weak light grey fine to medium SANDSTONE with extremely closely to closely spaced thinly and thickly interlaminated mudstone and siltstone. | 15.0 –<br>17.7 | +45.7 to<br>+43.1 | Not proven               |



Figure 4-1 Hardstanding underlain by light grey gravel within top 0.5m followed by dark brown sandy gravel. Note concrete obstruction extending across the base of the pit at 3.5mbgl (TP22/02).



Figure 4-2 Light grey limestone gravel retrieved from top 0.5m within TP22/02



Figure 4-3 Dark brown material located beneath Type 1-style material contains abundant brick and concrete with rare metal and occasional slag.

### 4.3.1 Coal Seams

A summary of the encountered coal seams within the Coal Measures identified across the Site is presented below in Table 4-2. A relatively thick sandstone band was encountered between the Charlotte Lower seam and the Thin Seam series, this has also been presented. Reference should be made to the cross sections within Drawings NSE-BHE-XX-XX-DR-CG-003001 to 003004 for further details.

**Table 4-2 Summary of encountered coal seams within the Coal Measures**

| Seam / geological unit | Location recorded | Depth top (mOD) | Depth base (mOD) | Description                                                                              | Thickness |
|------------------------|-------------------|-----------------|------------------|------------------------------------------------------------------------------------------|-----------|
| Openshaw Seam          | BHNS3 (2014)      | +44.5           | +44.4            | Black coal                                                                               | 0.14      |
|                        | BHNS3 (2014)      | +41.6           | +41.3            | Black coal                                                                               | 0.31      |
| Charlotte Seam Upper   | BH22/02           | +38.8           | +38.5            | Black coal                                                                               | 0.3       |
|                        | BHNS3 (2014)      | +21.0           | +20.6            | AZCL                                                                                     | 0.3       |
| Charlotte Seam Lower   | BH22/06A          | +42.5           | +42.0            | Black coal locally interlaminated with mudstone                                          | 0.5       |
|                        | BH22/02           | +30.9           | +28.5            | Black carbonaceous mudstone very thinly interbedded with coal                            | 2.35      |
|                        | BH22/01           | +16.9           | +15.4            | Mudstone interbedded with coal                                                           | 1.55      |
| Sandstone band         | BH22/08           | +38.3           | +33.5            | Weak sandstone                                                                           | 4.75      |
|                        | BH22/07           | +36.0           | +27.2            | Weak sandstone                                                                           | 8.75      |
|                        | BH22/06A          | +26.1           | +18.85           | Moderately weak sandstone thinly interlaminated with siltstone                           | 7.25      |
|                        | BH22/02           | +16.4           | +6.3             | Medium strong sandstone thinly laminated to very thinly bedded interbedded with mudstone | 10.1      |
|                        | BH22/05           | +24.0           | +19.2            | Moderately weak sandstone                                                                | 4.8       |
| Thin A Seam            | BH22/08           | +32.3           | +31.1            | Dark grey mudstone                                                                       | 1.2       |
|                        | BH22/06A          | +14.7           | +13.9            | Dark grey carbonaceous mudstone with thinly bedded coal                                  | 0.75      |
| Thin B Seam            | BH22/08           | +22.0           | +20.8            | Black coal with rare thin beds of mudstone                                               | 1.25      |
|                        | BH22/06A          | +6.4            | +4.2             | Dark grey carbonaceous mudstone locally tending to black coal                            | 2.2       |

A photographic example of the core retrieved through the aforementioned coal seams (namely the Charlotte Upper and Lower seam) and the sandstone band is presented below in Figure 4-4.

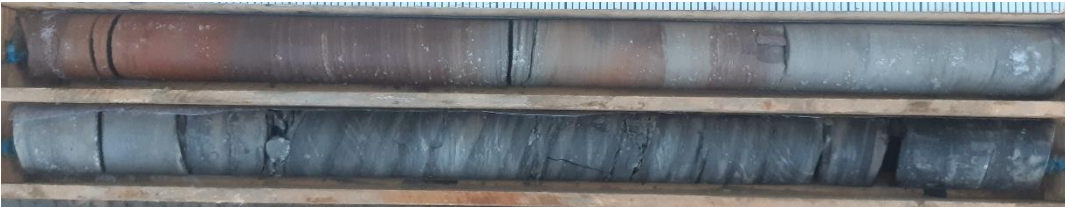
|                                                                                      |                                           |
|--------------------------------------------------------------------------------------|-------------------------------------------|
|    | 22.5-<br>25.5mbgl<br>(Charlotte<br>Upper) |
|    | 28.5-<br>31.5mbgl<br>(Charlotte<br>Lower) |
|   | 40.5-<br>43.5mbgl                         |
|  | 46.5-<br>49.5mbgl                         |
|  | 49.5-<br>52.5mbgl<br>(sandstone<br>band)  |
|  | 52.5-55-<br>5mbgl                         |

Figure 4-4 Photographic record of BH22/02 exhibiting the zone of a coal seam, followed by carbonaceous mudstone and then a competent band of sandstone and returning to mudstone again.

### 4.3.2 Visual / olfactory evidence of contamination

No evidence of widespread and/ or gross contamination was encountered during the ground investigation. However, “hydrocarbon odours” were recorded in some locations at relatively shallow depth as described below.

**Table 4-3 Summary of visual and/or olfactory evidence encountered during the ground investigation**

| Location | Description                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------|
| BH22/01  | Strong hydrocarbon odour encountered between 0.9m and 1.2mbgl.<br>Faint hydrocarbon odour encountered between 1.2m and 4.1mbgl. |
| BH22/07  | Strong hydrocarbon odour encountered between 1.15m and 2.0mbgl.                                                                 |
| CPT22/01 | Strong hydrocarbon odour at 0.7mbgl.                                                                                            |
| CPT22/04 | Strong hydrocarbon odour at 0.7mbgl.                                                                                            |

### 4.3.3 Obstructions

The majority of locations encountered hard strata when drilling / excavating, this is presumed to be due to the lime stabilisation added to the ground during previous remediation activities (in 2010 by Buckingham's Group Contracting [30]). Obstructions were encountered within some of the trial pits these are summarised below in Table 4-4.

**Table 4-4 Summary of obstruction encountered during the ground investigation**

| Location     | Description of obstruction                                                                           |
|--------------|------------------------------------------------------------------------------------------------------|
| TP22/02      | Concrete obstruction encountered across the base of the pit at 3.5mbgl                               |
| TP22/03      | Concrete boulder obstruction at 1.8mbgl measuring approximately 1.2m from the south face of the pit. |
| TP22/06      | Concrete boulder at 0.9mbgl.                                                                         |
| TP22/07      | Steel reinforcement bar measuring up to 400mm long and 10mm diameter encountered at 2.4-2.5mbgl      |
| (WS) TP22/05 | Concrete obstruction reported at 0.9mbgl (terminating the window sample)                             |
| CPT22/06     | Steel reinforcement bar fragment measuring 100mm long and 5mm diameter encountered at 0.7-0.8mbgl.   |

## 4.4 Groundwater

Groundwater monitoring was carried out as part of the ground investigation. Monitoring began during the investigation upon completion of the installation and then continued as part of a six-week monitoring programme. Groundwater levels within the Coal Measures ranged between +37.7mOD and +42.0mOD. Direction of groundwater flow is considered to be west / southwest following the direction of the River Medlock. Data obtained from the ground investigation does not present any obvious groundwater flow direction though slightly lower levels in the groundwater monitoring were recorded to the east of the Site. The groundwater monitoring results from the Coal Measures are presented below in Figure 4-5.

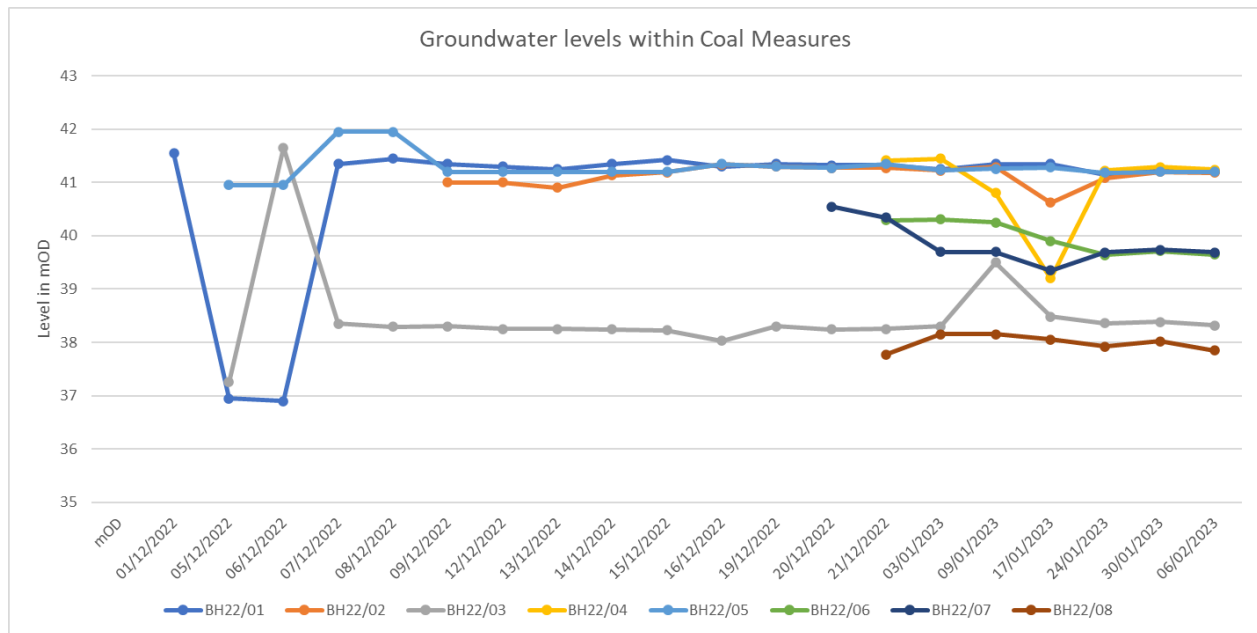


**Figure 4-5 Groundwater monitoring within the Coal Measures, note the initial readings were taken prior to development of the well.**

The River Medlock is located approximately 160m north (at its nearest point) within a brick-built culvert, the water levels within this culvert are at about +41.7mOD. Outside of the culvert, the nearest point to the river is >300m west. The stage datum for the River Medlock is +35.8mOD, data obtained by the Environment Agency (presented on River Levels website [13]) describes the typical recent levels of the river at Gurney Street (approximately 700m southwest of the Site) as between 0.11m and 0.36m (+35.9m and +36.2mOD). The highest recorded level (since data collection began) is 3.37m (+39.2mOD).

## 5 Geoenvironmental Risk Assessment Criteria

### 5.1 Soil risk assessment criteria

In order to perform a Generic Quantitative Risk Assessment (GQRA), the soil, groundwater and gas test results will be compared (see Sections 6, 7 and 8 respectively) with available Soil Guideline Values (SGVs), Category 4 Screening Values (C4SLs), and Buro Happold and other industry Generic Assessment Criteria (GAC), the details of which are presented in Appendix B.

#### 5.1.1 Risks to human health

**Chronic:** For human health risk assessment, soil results will be assessed using GACs, C4SLs and SGVs for the Contaminated Land Exposure Assessment (CLEA) residential without plant uptake and commercial land use scenarios. The residential and commercial land use scenarios are applied to give context to the data and to provide indicative upper and lower bounds for discussion purposes only. The commercial land use is considered to be the most appropriate scenario against which the data is to be compared to establish suitability for use, along with the acute exposure thresholds noted below.

**Acute:** For acute risks to human health, soil results will be assessed using the SoBRA Acute Generic Assessment Criteria (AGAC) [31]. These AGACs have been derived for seven determinands: arsenic, benzene, cadmium, free cyanide, phenol, trichloroethylene (TCE) and vinyl chloride (VC). Lead was also considered but due to the limited toxicological data available, no threshold was determined. The exposure scenarios modelled are:

- General public exposure (or trespasser) via a single large dose (or potentially sum of several smaller doses over a short duration) of a 1-2 year old female child (averaged across ages of 0-6 years).
- Occupational exposure of female adult commercial/industrial worker exposed to contaminated soil during their work, such as construction, utility, site investigation or remediation worker over the working day.

Acute exposure has been defined and modelled based on an irregular (i.e. not repeated) exposure of up to 24 hours duration based on the assumption lasting for 30 minutes or less.

For determinands other than the 7 modelled by SoBRA, maximum concentrations (not the average concentration which is relevant to chronic / long term risk) were considered. Comparison of maximum concentrations are made with the other GACs and other screening values which provides a conservative benchmark for such short term risks (as the values are based on long term exposure).

#### 5.1.2 Plant health (phytotoxicity)

It is not anticipated that direct planting will take place within the material currently on Site. However, as a conservative approach and in the case of future planting, soil test results indicating phytotoxicity are assessed using the British Standards Specification for Topsoil (BS 3882) [32].

#### 5.1.3 Risks to below ground structures

The water industry and several water utility companies have published guidance regarding the construction of new water supply pipework on Brownfield sites [33] but there is no universally accepted guidance (or contaminant thresholds). The most recent guidance published by Water UK [34] has been adopted as best practice but is not mandatory.

## 5.2 Controlled waters risk assessment criteria

In order to perform a groundwater generic quantitative risk assessment, the groundwater data is assessed using Water Supply Regulations [35], the Freshwater EQS [36] and the WHO Drinking Water Guidelines [37].

## 5.3 Ground gas risk assessment criteria

Ground gas data obtained from the Site will be used to assess the risks to the Site with reference to CIRIA report C665 [38], National Housing Building Council (NHBC) guidance [39] and BS 8485 [40]. Consideration to both methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>) concentrations as well as flow rates will be given. The borehole hazardous gas flow rate (Q<sub>hg</sub>) is calculated (as the product of gas concentration multiplied by flow rate) for each monitoring location at each monitoring event. If the data set is considered comprehensive and representative and consistent with the conceptual site model, the site characteristic Gas Screening Value (GSV) will be the maximum Q<sub>hg</sub>. If the data set is temporally or spatially limited, a plausible worst case condition should be determined (based upon maximum concentration and maximum flow rate from relevant monitoring wells) and this worst case Q<sub>hg</sub> will be adopted to determine the site characteristic GSV. [Note – BS8485 advises that this worst case scenario should be adopted only if it is prudent and reasonable to do so and that it would not result in unnecessarily conservative assessment and recommendations]. The site characteristic GSV for both methane and carbon dioxide is then used to determine the characteristic gas situation (CS). Further consideration of the appropriateness of this Characteristic Situation is given by reference to additional factors (e.g. recorded maximum concentrations and flow rates). Once this check is complete, the Characteristic Situation (and hazard potential) is confirmed, in turn enabling the identification of the need for and scope of gas protection measures.

### 5.3.1 Soil vapour

Soil vapour has not been assessed at the Site as the concentrations of volatile determinands in soil or groundwater (e.g. benzene and naphthalene) were not found to be present in concentrations that may pose a risk to human health at the Site.

## 5.4 Waste Classification

In order to determine the likely waste classification, soil test results have been assessed using the EA (Environment Agency), (2015) 'Technical Guidance WM3', 'Guidance on the classification and assessment of waste' 1st Edition v1.2.GB 2021 [41].

## 6 Analytical Results for Soil

### 6.1 Analytical Scope for Soil

A total of 59 soil samples were collected and tested during the intrusive ground investigation. 57 samples were taken from the Made Ground and two from the underlying natural strata just below the Made Ground. Table 6-1 below presents the laboratory testing suites used for soil during the intrusive ground investigation.

**Table 6-1 Laboratory testing suites for soil**

| Suite Reference                 | Contaminant Analysis Suite                                                                                                                    |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Suite 1                         | pH, CLEA metals suite, total cyanide, free cyanide, total mercury, speciated PAHs, phenol, TPH (total), Soil Organic Matter, asbestos screen. |
| Suite 1 additional determinands | Free cyanide, TPH CWG, BTEX, Total Organic Carbon, Loss on Ignition, hexavalent chromium, asbestos quantification                             |
| Full WAC Analysis               | pH, heavy metals, dissolved organic carbon, total organic carbon, chloride, fluoride, sulphate, total dissolved solids                        |

The analytical test results for contaminants in soils are presented in full in Appendix C.

### 6.2 Made Ground – Chronic Risks

#### 6.2.1 Inorganic Determinands

A total of 57 samples of Made Ground were analysed for inorganic determinands (with twelve of those samples also tested for Chromium VI). A summary of the results are presented below in Table 6-2, with the full screening assessment and factual data presented in Appendix C.

**Table 6-2 Concentrations of inorganic determinands (mg/kg)**

| Determinand         | No of samples | GAC (No of samples exceeding GAC). SGV; C4SL |                         | Min. | Max.   | US95* |
|---------------------|---------------|----------------------------------------------|-------------------------|------|--------|-------|
|                     |               | Residential without plant uptake             | Commercial / Industrial |      |        |       |
| Total Cyanide       | 57            | 760 (0)                                      | 16000 (0)               | <1.0 | 5.2    | -     |
| Free Cyanide        | 56            | 760 (0)                                      | 16000 (0)               | <1.0 | <1.0   | -     |
| Arsenic             | 57            | 40 (3)                                       | 640 (0)                 | <1.0 | 96.0   | 19.4  |
| Boron               | 57            | 11000 (0)                                    | 240000 (0)              | <0.2 | 4.9    | -     |
| Cadmium             | 57            | 149 (0)                                      | 410 (0)                 | <0.2 | 12.0   | -     |
| Chromium            | 57            | 910 (0)                                      | 8600 (0)                | 4.0  | 120.0  | -     |
| Chromium VI         | 12            | 21 (0)                                       | 49 (0)                  | <1.8 | <1.8   | -     |
| Copper              | 57            | 7100 (0)                                     | 68000 (0)               | 4.7  | 610.0  | -     |
| Lead                | 57            | 310 (5)                                      | 2330 (0)                | 3.9  | 480.0  | 144.3 |
| Mercury (inorganic) | 57            | 56 (0)                                       | 58 (0)                  | <0.3 | 0.3    | -     |
| Nickel              | 57            | 180 (0)                                      | 980 (0)                 | 1.3  | 56.0   | -     |
| Zinc                | 57            | 40000 (0)                                    | 730000 (0)              | 11.0 | 3800.0 | -     |

\*The calculation of US95 average concentrations is not required for determinands where exceedances of the relevant guidance values have not been identified.

All samples recorded inorganic contaminant concentrations below the relevant commercial screening thresholds. The majority of samples also recorded all determinands below the more conservative residential (without plant uptake) thresholds. Occasional samples recorded concentrations of arsenic and lead above residential screening criteria, described below.

**Lead** – A total of 5 samples (approximately 9% of the dataset) recorded elevated concentrations of lead above the residential (without plant uptake) threshold. The maximum concentration was recorded as 480mg/kg, well below the commercial threshold however 1.5 times the residential threshold. The calculated US95 is 144.3mg/kg, well below the more conservative residential threshold.

**Arsenic** – A total of 3 samples (approximately 5% of the dataset) recorded elevated concentrations of arsenic above the residential (without plant uptake) threshold. The maximum concentration was recorded as 96mg/kg, well below the commercial threshold however 2.4 times the residential threshold. The calculated US95 is 19.4mg/kg, well below the more conservative residential threshold.

## 6.2.2 Organic determinands

### BTEX and PAHs

A total of 22 samples of Made Ground were analysed for BTEX [benzene, toluene, ethyl benzene and xylene]. All samples recorded concentrations below the relevant screening thresholds with the majority of samples not exceeding the limits of detection. A total of 57 samples of Made Ground were analysed for PAHs. Concentrations were compared with relevant screening values for human health risk assessment; Table 6-3 presents a summary, with the full screening assessment and factual data in Appendix C.

**Table 6-3 Concentrations of PAHs (mg/kg)**

| Determinand           | No. of Samples | GAC (No. of samples exceeding GAC); SGV; C4SL |                         | Min.  | Max. | US95* |
|-----------------------|----------------|-----------------------------------------------|-------------------------|-------|------|-------|
|                       |                | Residential without plant uptake              | Commercial / Industrial |       |      |       |
| Naphthalene           | 57             | 2.3 (15)                                      | 190 (0)                 | <0.05 | 13.0 | 2.27  |
| Acenaphthylene        | 57             | 2900 (0)                                      | 83000 (0)               | <0.05 | 2.0  | -     |
| Acenaphthene          | 57             | 3000 (0)                                      | 84000 (0)               | <0.05 | 8.1  | -     |
| Fluorene              | 57             | 2800 (0)                                      | 63000 (0)               | <0.05 | 7.8  | -     |
| Phenanthrene          | 57             | 1300 (0)                                      | 22000 (0)               | <0.05 | 37.0 | -     |
| Anthracene            | 57             | 31000 (0)                                     | 520000 (0)              | <0.05 | 12.0 | -     |
| Fluoranthene          | 57             | 1500 (0)                                      | 23000 (0)               | 0.1   | 35.0 | -     |
| Pyrene                | 57             | 3700 (0)                                      | 54000 (0)               | 0.13  | 37.0 | -     |
| Benzo[a]anthracene    | 57             | 11 (6)                                        | 170 (0)                 | <0.05 | 18.0 | 5.75  |
| Chrysene              | 57             | 30 (0)                                        | 350 (0)                 | <0.05 | 15.0 | -     |
| Benzo[b]fluoranthene  | 57             | 3.9 (26)                                      | 44 (0)                  | <0.05 | 19.0 | 5.57  |
| Benzo[k]fluoranthene  | 57             | 110 (0)                                       | 1200 (0)                | <0.05 | 7.6  | -     |
| Benzo[a]pyrene        | 57             | 3.2 (27)                                      | 35 (0)                  | <0.05 | 15.0 | 5.03  |
| Indeno[123-cd]pyrene  | 57             | 45 (0)                                        | 500 (0)                 | <0.05 | 7.4  | -     |
| Dibenzo[ah]anthracene | 57             | 0.31 (29)                                     | 3.5 (0)                 | <0.05 | 1.8  | 0.55  |
| Benzo[ghi]perylene    | 57             | 360 (0)                                       | 3900 (0)                | <0.05 | 7.7  | -     |

S4UL used where there is no C4SL

\*The calculations of the US95 include outliers and were not undertaken where exceedances of the relevant S4UL / C4SL have not been identified

All samples recorded PAH concentrations below the relevant commercial screening thresholds and most samples recorded concentrations below the more conservative residential thresholds for the majority of determinands. The determinands with concentrations recorded at above the residential screening criteria are described briefly below.

**Dibenzo[ah]anthracene** – A total of 29 samples (approximately half of the dataset) recorded elevated concentrations of dibenzo[ah]anthracene above the residential (without plant uptake) threshold. The maximum concentration was 1.8mg/kg, almost 6 times the residential threshold. The calculated US95 is 0.55mg/kg, slightly above the residential threshold but well below the relevant commercial threshold.

**Benzo[a]pyrene** – A total of 27 samples (just under half of the dataset) recorded elevated concentrations of benzo[a]pyrene above the residential (without plant uptake) threshold. The maximum concentration was 15mg/kg, almost 5 times the residential threshold. The calculated US95 is 5.03mg/kg, above the residential threshold but well below the relevant commercial threshold.

**Benzo[b]fluoranthene** – A total of 26 samples (approximately 46% of the dataset) recorded elevated concentrations of benzo[b]fluoranthene above the residential (without plant uptake) threshold. The maximum concentration was 19mg/kg, almost 5 times the residential threshold. The calculated US95 is 5.57mg/kg, above the residential threshold but well below the relevant commercial threshold.

**Naphthalene** – A total of 15 samples (approximately 26% of the dataset) recorded elevated concentrations of naphthalene above the residential (without plant uptake) threshold. The maximum concentration was 13mg/kg, almost 6 times the residential threshold. The calculated US95 is 2.27mg/kg, below both the residential threshold and the relevant commercial threshold.

**Benzo[a]anthracene** – A total of 6 samples (approximately 11% of the dataset) recorded elevated concentrations of benzo[a]anthracene above the residential (without plant uptake) threshold. The maximum concentration was 18mg/kg, almost 2 times the residential threshold. The calculated US95 is 5.75mg/kg, below both the more conservative residential threshold and the relevant commercial threshold.

### Petroleum Hydrocarbons

A total of 22 samples of Made Ground were analysed for petroleum hydrocarbons speciated carbon banding. A total of 57 samples were scheduled for total petroleum hydrocarbons. The full screening assessment and factual data are presented in Appendix C

Concentrations of specific hydrocarbon fractions in all samples were recorded below both residential and commercial thresholds. For total petroleum hydrocarbons, 16 samples (28% of the dataset) recorded concentrations elevated above the averaged residential threshold (490mg/kg). The maximum recorded concentration was 1700mg/kg, over 2 times the residential threshold, however, the calculated US95 was 481.3mg/kg, just below the averaged residential threshold.

#### 6.2.3 pH in Made Ground

Measurements of soil pH are typically alkaline with an average pH of 8.0 and a maximum recorded of 12.2. The elevated pH concentrations are likely to be related to concrete fragments present within the Made Ground across the Site.

#### 6.2.4 Asbestos

Suspected Asbestos Containing Materials (ACM) were not observed in the soils encountered in any of the exploratory holes during the ground investigation. A total of 57 samples taken from the Made Ground were screened (subject to microscopic analysis in the laboratory) for asbestos. Asbestos (chrysotile and amosite) was identified in 9 samples

(approximately 16% of data set) Mainly as loose fibres, but also in the forms of sheeting/ board, rope and cement bound. All 9 samples were quantified, three samples recorded concentrations below the limit of quantification (<0.001%), the remaining six samples recorded concentrations above the limit of quantification but below the hazardous waste threshold (0.1%) as detailed below.

- BH22/04 at 0.5-0.7m, concentration of 0.002% recorded – chrysotile loose fibres
- BH22/04 at 1.5m, concentration of <0.001% recorded – chrysotile loose fibres
- TP22/02 at 3.0m, concentration of 0.007% recorded – amosite sheeting / board
- BH22/08 at 1.5m, concentration of 0.027% recorded – chrysotile rope
- BH22/08 at 2.5m, concentration of 0.025% recorded – chrysotile sheeting / board debris
- BH22/08 at 4.5m, concentration of <0.001% recorded – chrysotile loose fibres
- TP22/07 at 0.2-0.4m, concentration of <0.001% recorded – amosite loose fibres
- BH22/01 at 1.0m, concentration of 0.002% recorded – chrysotile loose fibres
- BH22/02 at 0.9-1.1m, concentration of 0.001% recorded – chrysotile hard / cement type material

### 6.3 Natural Strata

Two samples were sampled from the underlying Glacial Till clayey material and were subject to chemical analysis (adopting the same analytical suite as for the Made Ground). None of the samples recorded concentrations of any inorganic or organic determinands above relevant thresholds.

### 6.4 Acute Risk to Human Health

The majority of all the relevant determinands were below the SoBRA Acute Generic Assessment Criteria (AGAC) [31] for both adult receptors and the more sensitive child receptor, with the exception of two samples slightly exceeding the more sensitive child threshold for arsenic. The results are presented in Table 6-4.

**Table 6-4 Summary of SoBRA AGAC**

| Determinand    | No of samples | AGAC (mg/kg)               |                           |
|----------------|---------------|----------------------------|---------------------------|
|                |               | Child (no. of exceedances) | Adult (no of exceedances) |
| Arsenic        | 57            | 80 (2)                     | 7000 (0)                  |
| Benzene        | 22            | 47 (0)                     | 4100 (0)                  |
| Cadmium        | 57            | 140 (0)                    | 12000 (0)                 |
| Free cyanide   | 56            | 24 (0)                     | 2100 (0)                  |
| Phenol         | 42            | 2000 (0)                   | 175000 (0)                |
| Vinyl-chloride | 4             | 98 (0)                     | 220 (0)                   |

Where there are no guidance values for assessing acute risk related to soil contamination, a comparison of the maximum concentrations of the determinands discussed above has been made with the various GACs derived for chronic risks, which will provide a conservative benchmark for such short-term risks (as the GACs etc. are based upon a long term exposure). Determinands with highly elevated maximum values may pose an acute risk to construction or maintenance workers. In the majority of the Made Ground, no samples contained highly elevated maximum values of any determinands with most samples recording concentrations of determinands below residential thresholds. There were no exceedances of any commercial thresholds.

## 6.5 Phytotoxicity Risk

Within the natural strata and Made Ground analysis was carried out for copper, nickel and zinc on 59 samples (57 of Made Ground and 2 of underlying natural strata).

**Table 6-5 Concentrations of copper, nickel and zinc (mg/kg)**

| Determinand | No. of Samples | Screening threshold (No. of samples exceeding) | Max.   | Min. | US95  |
|-------------|----------------|------------------------------------------------|--------|------|-------|
| Copper      | 59             | 200 (3)                                        | 610.0  | 4.7  | 106.9 |
| Nickel      | 59             | 110 (0)                                        | 56.0   | 1.3  | -     |
| Zinc        | 59             | 300 (14)                                       | 3800.0 | 11.0 | 437.2 |

**Copper** - Three samples (5% of the dataset) included concentrations of copper elevated above the relevant threshold, the maximum concentration was recorded as 610mg/kg, over three times the threshold. The calculated US95 is 106.9mg/kg, well below the threshold.

**Zinc** – A total of 14 samples (approximately 24% of the dataset) included concentrations of zinc elevated above the relevant threshold. The maximum concentration was 3800mg/kg, almost 13 times the threshold. The calculated US95 is 437.2mg/kg, above the threshold by a factor of about 1.5.

**Nickel** - None of the samples exceeded the relevant thresholds for nickel.

## 6.6 Risks to Below Ground Structures

The desk study identified potential risks to buried services (potable water supply pipework) and the potential for contamination to permeate any plastic water supply pipework laid directly in contaminated ground. The data for the shallow Made Ground has been discussed in some detail in Section 6.2 with respect to human health assessment criteria. Some of the determinands assessed in that section (particular organic compounds) have the potential to impact not only on human health but also to affect below ground water supply. This is because there is potential for particular organic contaminants to permeate plastic pipes and taint water supply if those pipes are laid in contact with contaminated soils. Owing to the nature of the works it is not known what depths any below ground water supply pipework may be placed therefore all Made Ground samples have been used within the assessment.

### 6.6.1 Data assessment [Water UK]

Table 6-6 Summary of results using Water UK thresholds

| Test Group                                           | Determinand used                                                                                                                                         | Total no of samples | Polyethylene (PE) Threshold<br>(No exceeding) | Metal Pipes / Barrier Pipes | LCL*<br>mg/kg | Max.<br>mg/kg | UCL<br>mg/kg |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------|-----------------------------|---------------|---------------|--------------|
| EC5-EC10 aliphatic and aromatic hydrocarbons         | Aliphatic and Aromatic C5-C10                                                                                                                            | 22                  | 2 (0)                                         | Pass                        | <0.001        | 0.046         | 0.01         |
| EC10-EC16 aliphatic and aromatic hydrocarbons        | Aliphatic and Aromatic C10-C16                                                                                                                           | 22                  | 10 (14)                                       | Pass                        | 13.1          | 90.6          | 28.8         |
| EC16-EC40 aliphatic and aromatic hydrocarbons        | Aliphatic and Aromatic C16-C35                                                                                                                           | 22                  | 500 (5)                                       | Pass                        | 208.6         | 1142          | 432.9        |
| Total BTEX + MTBE                                    |                                                                                                                                                          | 22                  | 0.1 (0)                                       | Pass                        | 1.8           | 0.052         | 3.4          |
| Total VOCs                                           | Summation of available VOCs ( <i>all VOCs results are &gt;LoD</i> )<br><i>Naphthalene</i>                                                                | 57                  | 0.5 (36)                                      | Pass                        | 1.2           | 13.0          | 2.3          |
| Total SVOCs (excl. PAHs and determinands listed **)  | Summation of available SVOCs ( <i>where SVOCs are &gt;LoD: aniline, 2-methylnaphthalene, dimethylphthalate, dibenzofuran, carbazole, anthraquinone</i> ) | 5                   | 2 (2)                                         | Pass                        | 0.3           | 7.7           | 6.4          |
| Phenols (from SVOC analysis)                         | Phenols                                                                                                                                                  | 5                   | 2 (0)                                         | Pass                        | <0.2          | <0.2          | <0.2         |
| Cresols and chlorinated phenols (from SVOC analysis) | 2-chlorophenol                                                                                                                                           | 5                   | 2 (0)                                         | Pass                        | <0.2          | <0.2          | <0.2         |
| Corrosive – conductivity, Redox and pH               |                                                                                                                                                          | -                   | Pass                                          | See Note 1                  |               |               |              |

*Note 1 Threshold: For wrapped steel corrosive if pH<7 and conductivity >400uS/cm. For wrapped ductile iron corrosive if pH<5, Eh not neutral and conductivity >400uS/cm. For copper, corrosive if pH<5 or >8 and Eh positive.*

*\*Limit of Detection or minimum value shown where LCL was a negative number*

*\*\*PAHs, ethers, nitrobenzene, ketones, aldehydes, phenols, cresols and chlorinated phenols (phenols, cresols and chlorinated phenols are given their own assessment criteria)*

**Total VOCs** - The assessment on total VOCs was carried out using the concentrations recorded for naphthalene within the Made Ground (all concentrations from VOC analysis were below the limit of detection). A total of 57 samples were tested with 36 samples (approximately 63% of the dataset) exceeding the Water UK threshold of 0.5mg/kg. The Upper Confidence Limit (UCL) is 2.3mg/kg, nearly 5 times the relevant threshold.

**Aliphatic and aromatic C10-C16** – A total of 22 samples were tested for aliphatic and aromatic C10-C16, 14 of these samples (approximately 63% of the dataset) were elevated above the relevant Water UK threshold (10mg/kg). UCL is 28.8mg/kg nearly 3 times the threshold.

**Aliphatic and aromatic C16-C35** - A total of 22 samples were tested for aliphatic and aromatic C16-C35, 5 of these samples (approximately 23% of the dataset) were elevated above the relevant Water UK threshold (500mg/kg). The UCL is 432.9mg/kg, just below the relevant threshold.

**Total SVOCs** – A total of 5 samples were tested for total SVOCs, the majority of all SVOC determinands contained concentrations below the limit of detection. Those with concentration above the limit of detection include: aniline, 2-methylnaphthalene, dimethylphthalate, dibenzofuran, carbazole, anthraquinone. Two samples include total concentrations elevated above the relevant Water UK threshold. The UCL is 6.4mg/kg, over 3 times the relevant threshold.

**pH** – The minimum recorded pH level was 8.0 and the maximum recorded level 12.2. The mean is calculated as 9.96. Various thresholds are given to assess the corrosive nature of the ground upon the water supply pipework materials. For metal pipes / barrier pipes a pH level of >8 will corrode copper pipework.

## 6.6.2 Summary

This assessment indicates that PE, PVC and copper pipes laid within the Made Ground, may not be appropriate for potable water supply at the Site due to the elevated concentrations of total VOCs, some petroleum hydrocarbon ranges, SVOCs and pH. If all the Made Ground remains in-situ and the pipes are barrier pipe materials are likely to be required unless otherwise agreed with the utility company.

## 7 Analytical Results for Groundwater

### 7.1 Analytical scope for groundwater

A total of 16 samples were collected during two separate monitoring occasions (4<sup>th</sup> January and 24<sup>th</sup> January 2023). Six samples from the perched groundwater in the Made Ground and ten samples from groundwater in the Coal Measures. The following chemical analysis for groundwater samples has been undertaken.

**Table 7-1: Summary of chemical analysis undertaken**

| Chemical Analysis                                                                                    |
|------------------------------------------------------------------------------------------------------|
| CLEA metals suite (arsenic, boron, cadmium, total chromium, copper, lead, nickel, selenium and zinc) |
| Hardness                                                                                             |
| Total TPH                                                                                            |
| BTEX (one round only)                                                                                |
| Speciated PAHs                                                                                       |
| Total cyanide                                                                                        |
| Sulphate                                                                                             |

### 7.2 Made Ground (Perched Groundwater)

#### 7.2.1 Inorganic determinands

A number of samples from the shallow perched groundwater recorded concentrations of inorganic determinands above the screening thresholds as outlined in Table 7-2.

**Table 7-2: Summary of inorganic contaminants within the Made Ground (perched water)**

| Contaminant    | No. of samples | WHO Drinking Water Guidelines (no. of exceedances) | Freshwater EQS (no. of exceedances) | Water Supply Regulations (no. of exceedances) | Max. (ug/L) | Max. sample location |
|----------------|----------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|-------------|----------------------|
| Mercury        | 6              | 6 (0)                                              | -                                   | 1 (0)                                         | 0.41        | BH22/06A             |
| Arsenic        | 6              | 10 (5)                                             | 50 (0)                              | 10 (5)                                        | 22.8        | BH22/06A             |
| Boron          | 6              | 2400 (0)                                           | 2000 (0)                            | 1000 (2)                                      | 1700.0      | BH22/04              |
| Cadmium        | 6              | 3 (0)                                              | 0.25 (0)                            | 5 (0)                                         | 0.04        | BH22/04              |
| Total Chromium | 6              | 50 (0)                                             | -                                   | 50 (0)                                        | 0.5         | BH22/04              |
| Copper         | 6              | 2000 (0)                                           | 1 (3)                               | 2000 (0)                                      | 1.8         | BH22/04              |
| Lead           | 6              | 10 (0)                                             | 1.2 (0)                             | 10 (0)                                        | 0.8         | BH22/04              |
| Nickel         | 6              | 70 (0)                                             | 4 (6)                               | 20 (2)                                        | 28.0        | BH22/01              |
| Selenium       | 6              | 40 (0)                                             | -                                   | 10 (1)                                        | 12.0        | BH22/04              |
| Zinc           | 6              | -                                                  | 10.9 (1)                            | -                                             | 28.0        | BH22/04              |

All samples recorded concentrations of mercury, cadmium, total chromium and lead below all the selected thresholds (Water Supply Regulations, Freshwater EQS and WHO Drinking Water Guidelines). The Freshwater EQS are used as a conservative screen of groundwater data to provide a point of reference and an indication of impact of potential groundwater contamination to a nearby freshwater body.

**Arsenic** – A total of 5 samples (83% of the dataset) recorded concentrations of arsenic elevated above the Water Supply Regulations threshold and the WHO Drinking Water Guidelines. The maximum recorded concentration was 22.8ug/l, recorded within BH22/06A on the second sampling round. During the initial round of sampling the concentration of arsenic at this location was 16.3ug/l.

**Nickel** – All samples recorded concentrations of nickel elevated above the EQS freshwater threshold. Two samples (33% of dataset) recorded concentrations of nickel elevated above the Water Supply Regulations. All samples were below the WHO Drinking Water Guidelines. The maximum recorded concentration was 28ug/l, recorded within BH22/01 during the second round of sampling. During the initial sampling round the sample taken from this well recorded a concentration of nickel of 8.6g/l.

**Copper** – A total of 3 samples (44% dataset) recorded a concentration of copper elevated slightly above the EQS freshwater threshold. The maximum concentration (1.8ug/l) was recorded within BH22/04 during the initial round of sampling. During the second round of sampling the concentration within this installation was 1.4ug/l, remaining marginally above the threshold. All samples were below the WHO Drinking Water Guidelines and Water Supply Regulations thresholds.

**Zinc** – One sample (17% of the dataset) recorded a concentration of zinc elevated above the EQS freshwater threshold. The concentration was 28ug/l, recorded within BH22/04 during the second round of sampling. No other exceedances were recorded.

**Boron** – Two samples (33% of the dataset) recorded elevated concentrations of boron above the Water Supply Regulations. The maximum concentration was 1700ug/l, recorded within BH22/04, a similarly elevated concentration was also recorded during the second round of sampling. All samples were below the EQS freshwater and WHO Drinking Water Guidelines thresholds.

**Selenium** - One sample (17% of the dataset) recorded an elevated concentration of selenium above the Water Supply Regulations. All samples recorded concentrations below the WHO Drinking Water Guidelines. The concentration was 12ug/l, marginally above the threshold. This was recorded within BH22/04 during the initial round of sampling. No other exceedances were recorded.

## 7.2.2 Organic determinands

There was no visual evidence of any hydrocarbon contamination within any of the boreholes. Olfactory hydrocarbon evidence was recorded within BH22/01 and BH22/07 when drilling, but no observations of contamination in the shallow groundwater were recorded during the monitoring rounds. All concentrations of BTEX were below the laboratory limits of detection within all locations sampled (including BH22/01 and BH22/07). There are no available thresholds to compare against for concentrations for TPH. No samples were obtained from the shallow installation within BH22/07 as this well was consistently recorded as dry. Typically where shallow installations contained sufficient water to sample, concentrations of TPH were generally not elevated (between 120ug/l and 290ug/l) with the exception of BH22/06A whereby both samples recorded >500ug/l TPH concentrations.

Samples containing elevated concentrations of speciated PAH have been summarised within Table 7-3 below. The majority of samples recorded concentrations of most speciated PAHs below the limit of detection but with concentrations of naphthalene, fluoranthene, anthracene and benzo[a]pyrene above thresholds – see below.

**Table 7-3: Summary of samples exceeding screening thresholds for organic contaminants within the Made Ground**

| Contaminant    | No. of samples | WHO Drinking Water Guidelines (no. of exceedances) | Freshwater EQS (no. of exceedances) | Water Supply Regulations (no. of exceedances) | Max. (ug/L) | Max. sample location |
|----------------|----------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|-------------|----------------------|
| Naphthalene    | 6              | -                                                  | 2 (6)                               | -                                             | 24.6        | BH22/06A             |
| Fluoranthene   | 6              | -                                                  | 0.0063 (6)                          | -                                             | 1.79        | BH22/06A             |
| Anthracene     | 6              | -                                                  | 0.1 (4)                             | -                                             | 3.86        | BH22/04              |
| Benzo[a]pyrene | 6              | 0.7 (0)                                            | 0.00017 (6)                         | 0.01 (6)                                      | 0.69        | BH22/06A             |

**Naphthalene** – All samples recorded concentrations of naphthalene elevated above the EQS freshwater threshold. The maximum concentration recorded was 24.6ug/l, within BH22/06A, during the initial round of sampling. The sample taken on the second round from the same installation recorded an elevated reading of 15ug/l. All other samples recorded concentrations <10ug/l, though still above the threshold.

**Fluoranthene** – The limit of detection for fluoranthene is above the EQS freshwater threshold. Two samples recorded concentrations below the limit of detection (both within BH22/01). The remaining four samples (66% of the dataset) recorded elevated concentrations between 0.6ug/l and 1.79ug/l. The maximum concentration recorded was recorded within BH22/06A, during the initial round of sampling. The sample taken on the second sampling round recorded a concentration of 0.9ug/l.

**Anthracene** – A total of four samples (67% of the dataset) recorded concentrations of anthracene elevated above the EQS freshwater threshold. The maximum concentration, 3.86ug/l, was recorded within BH22/04, during the initial round of sampling. During the second round of sampling the concentration was 1.59ug/l.

**Benzo[a]pyrene** – Half of the samples recorded concentrations of benzo[a]pyrene below the limit of detection (<0.01ug/l). The EQS freshwater and Water Supply Regulations thresholds are either at or below this threshold therefore all samples exceed both thresholds. A total of 3 samples include a concentration of benzo[a]pyrene above the limit of detection, the concentrations recorded range between 0.2ug/l and 0.7ug/l. these were recorded within BH22/04 on both sampling rounds and within BH22/06A on the initial sampling round only.

Due to PAHs inherent low solubility, the occurrence of PAHs within the groundwater is considered to be attributed to their adsorption onto suspended particles of silt within the groundwater samples. It should be noted that the PAHs adsorbed onto silt particles are not considered to be mobile within the natural groundwater environment.

## 7.3 Coal Measures (Secondary Aquifer)

### 7.3.1 Inorganic determinands

A number of samples recorded concentrations of inorganic determinands above the screening thresholds as outlined in Table 7-4.

Table 7-4: Summary of inorganic contaminants within the Coal Measures

| Contaminant    | No. of samples | WHO Drinking Water Guidelines (no. of exceedances) | Freshwater EQS (no. of exceedances) | Water Supply Regulations (no. of exceedances) | Max. (ug/L) | Max. sample location |
|----------------|----------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|-------------|----------------------|
| Mercury        | 10             | 6 (0)                                              | -                                   | 1 (0)                                         | 0.84        | BH22/07              |
| Arsenic        | 10             | 10 (6)                                             | 50 (1)                              | 10 (6)                                        | 56.7        | BH22/05              |
| Boron          | 10             | 2400 (0)                                           | 2000 (0)                            | 1000 (1)                                      | 1500.0      | BH22/07              |
| Cadmium        | 10             | 3 (0)                                              | 0.25 (0)                            | 5 (0)                                         | 0.14        | BH22/01              |
| Total Chromium | 10             | 50 (0)                                             | -                                   | 50 (0)                                        | 0.3         | BH22/07              |
| Copper         | 10             | 2000 (0)                                           | 1 (4)                               | 2000 (0)                                      | 3.0         | BH22/07              |
| Lead           | 10             | 10 (0)                                             | 1.2 (0)                             | 10 (0)                                        |             |                      |
| Nickel         | 10             | 70 (1)                                             | 4 (8)                               | 20 (4)                                        | 93.0        | BH22/07              |
| Selenium       | 10             | 40 (0)                                             | -                                   | 10 (1)                                        | 15.0        | BH22/07              |
| Zinc           | 10             | -                                                  | 10.9 (3)                            | -                                             | 88.0        | BH22/03              |

All samples recorded concentrations of mercury, cadmium, total chromium and lead below all the selected thresholds (Water Supply Regulations, Freshwater EQS and WHO Drinking Water Guidelines). The Freshwater EQS are used as a conservative screen of groundwater data to provide a point of reference and an indication of impact of potential groundwater contamination to a nearby freshwater body.

**Arsenic** – A total of 6 samples (60% of the dataset) recorded concentrations of arsenic elevated above the Water Supply Regulations threshold and the WHO Drinking Water Guidelines. The maximum recorded concentration was 56.7ug/l, recorded within BH22/05 on the initial sampling round. This concentration also exceeds the EQS freshwater threshold. During the second round of sampling the concentration of arsenic at this location was 13.5ug/l.

**Nickel** – A total of 8 samples (80% of the dataset) recorded concentrations of nickel elevated above the EQS freshwater threshold. Four samples (40% of dataset) recorded concentrations of nickel elevated above the Water Supply Regulations and one sample (10% of dataset) included a concentration elevated above the WHO Drinking Water Guidelines. The maximum recorded concentration was 93ug/l, recorded within BH22/07 during the second round of sampling. During the initial sampling round the sample taken from this well recorded a concentration of nickel of 27ug/l.

**Copper** – A total of four samples (40% dataset) recorded a concentration of copper elevated slightly above the EQS freshwater threshold. The maximum concentration (3ug/l) was recorded within BH22/07 during the second round of sampling and is three times the threshold. During the initial round of sampling the concentration within this installation was 0.9ug/l, below the threshold. All samples were below the WHO Drinking Water Guidelines and Water Supply Regulations thresholds.

**Zinc** – A total of three samples (30% of the dataset) recorded concentrations of zinc elevated above the EQS freshwater threshold. The maximum concentration was 88ug/l, recorded within BH22/03 during the initial round of sampling. During the second round of sampling the sample from this location did not record any exceedances.

**Boron** – One sample (10% of the dataset) recorded an elevated concentration of boron above the Water Supply Regulations. The maximum concentration was 1500ug/l, recorded within BH22/07. samples were below the EQS freshwater and WHO Drinking Water Guidelines thresholds.

**Selenium** - One sample (10% of the dataset) recorded an elevated concentration of selenium above the Water Supply Regulations. All samples recorded concentrations below the WHO Drinking Water Guidelines. The maximum concentration was 15ug/l, marginally above the threshold. This was recorded within BH22/07 during the second round of sampling. During the initial round of sampling, the recorded concentration within BH22/07 was well below the threshold.

### 7.3.2 Organic determinands

There was no visual evidence of any hydrocarbon contamination in groundwater in any of the boreholes. All concentrations of BTEX were below the laboratory limits of detection within all locations sampled. There are no available thresholds to compare against for concentrations for TPH. Concentrations of TPH within the Coal Measure Secondary Aquifer generally ranged between <10ug/l and <1000ug/l) with the exception of BH22/01 whereby one sample recorded 2300ug/l TPH concentration on one occasion.

Samples containing elevated concentrations of speciated PAH have been summarised within Table 7-3 below. The majority of all samples included concentrations of almost all speciated PAHs below the limit of detection.

**Table 7-5: Summary of samples exceeding screening thresholds for organic contaminants within the Made Ground**

| Contaminant  | No. of samples | WHO Drinking Water Guidelines (no. of exceedances) | Freshwater EQS (no. of exceedances) | Water Supply Regulations (no. of exceedances) | Max. (ug/L) | Max. sample location |
|--------------|----------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------|-------------|----------------------|
| Naphthalene  | 10             | -                                                  | 2 (8)                               | -                                             | 976.0       | BH22/01              |
| Fluoranthene | 10             | -                                                  | 0.0063 (8)                          | -                                             | 12.1        | BH22/01              |
| Anthracene   | 10             | -                                                  | 0.1 (6)                             | -                                             | 6.06        | BH22/01              |

**Naphthalene** – A total of 8 samples (80% of the dataset) recorded concentrations of naphthalene elevated above the EQS freshwater threshold. The maximum concentration recorded was 976ug/l, within BH22/01 during the second round of sampling. This concentration is significantly over the threshold, by an order of magnitude. The sample taken on the initial round from the same installation also recorded an elevated reading, 389ug/l.

**Fluoranthene** – The limit of detection for fluoranthene is elevated above the EQS freshwater threshold. Two samples recorded concentrations below the limit of detection. The remaining samples generally recorded concentrations between 0.23ug/l and 1.02ug/l. The maximum concentration recorded was 12.1ug/l within BH22/01 during the second round of sampling. This concentration is significantly over the threshold. The sample taken on the initial sampling round recorded a concentration of 0.84ug/l, much lower than the second round but still elevated above the threshold.

**Anthracene** – A total of six samples (60% of the dataset) recorded concentrations of anthracene elevated above the EQS freshwater threshold. The maximum concentration, 6.06ug/l, was recorded within BH22/01 during the second round of sampling. During the initial round the concentration was 0.66ug/l, slightly over the threshold. The remaining elevated samples typically ranged between 0.2ug/l and 0.7ug/l.

## 7.4 Groundwater sampling summary and discussion

Although concentrations of some determinands have been recorded above environmental and drinking water thresholds, the groundwater samples did not identify any significant gross contamination in either the shallow or the

deep monitoring wells. The perched water table (within the Made Ground) is separated from the underlying Secondary Aquifer (within the Coal Measures) by some 11m of Glacial Till deposits. In addition to this absence of hydraulic continuity, no horizontal or vertical correlation of the analytical data was apparent. Accordingly, there is no evidence to indicate a plume or singular source of contamination and although the groundwater in the Coal Measures is degraded to some degree, this would appear to be a regional issue and is not attributable to a contaminant source on the Site.

## 8 Analytical Results for Ground Gas and Characterisation

### 8.1 General

Up to five rounds of gas monitoring have been undertaken at the Site between the 3<sup>rd</sup> and 30<sup>th</sup> January 2023. Monitoring was undertaken on a total of 9 locations, which all contained unsaturated / partially unsaturated response zones. The installations capable of providing reliable ground gas monitoring data are summarised below (Table 8-1). The full set of the ground gas results are presented within the Contractors Interim Factual Report [42], with assessment summary sheet presented in Appendix E.

### 8.2 Monitoring Regime

Ground gas data obtained from the Site will be used to assess the potential risks associated with the proposed development with reference to CIRIA report C665 [38], National Housing Building Council (NHBC) guidance [39] and BS 8485 . Accordingly, consideration is given to both methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>) concentrations as well as flow rates. The borehole hazardous gas flow rate (Q<sub>hg</sub>) is defined as the product of the gas concentration and the flow rate. This value (Q<sub>hg</sub>) is calculated for both gases from each monitoring location and for each monitoring event. A Gas Screening Value (GSV) is then designated after consideration of all of these data taking into account issues such as reliability, borehole construction, peak and steady flows, temporal and spatial shortages etc.. The GSV is then considered (with other parameters) to define a Characteristic Situation (CS) which broadly identifies the level of hazard associated with the ground gas regime.

### 8.3 Monitoring Data

Table 8-1 Reliable ground gas monitoring data

| Borehole                  | No. Readings | Response zone | Depth to water | Response Zone flooded? | Strata      | Max flow rate l/hr* | Peak methane %* | Peak carbon dioxide %*                  | Min oxygen %*                        | Peak carbon monoxide | Peak hydrogen sulphide | VOC readings ppm            |
|---------------------------|--------------|---------------|----------------|------------------------|-------------|---------------------|-----------------|-----------------------------------------|--------------------------------------|----------------------|------------------------|-----------------------------|
| BH22/01                   | 5            | 1-4           | 2-2.4          | Partially              | Made Ground | -0.4                | <0.05           | <0.05                                   | <b>11.8</b> [20.1, 20.0, 20.1, 19.9] | 0.2                  | <0.05                  | 1.2 [1, 1, 0.6, <0.05]      |
| BH22/02                   | 5            | 1-3           | DRY            | No, dry                |             | <0.05               | <0.05           | <0.05                                   | 19.7                                 | <0.05                | <0.05                  | 5.7 [5.4, 4.9, 5.7, <0.05]  |
| BH22/03                   | 5            | 1-3           | 1.9-2.1        | Partially              |             | <0.05               | <0.05           | 0.6                                     | <b>6.8</b> [19.8, 20.0, 19.8, 19.3]  | <0.05                | <0.05                  | 6.5 [4.5, 4.5, 4.3, 0.5]    |
| BH22/04                   | 5            | 1-5           | 0.7-2.0        | Mostly                 |             | 0.4                 | <0.05           | <0.05                                   | 19.9                                 | <0.05                | <0.05                  | 9.9 [0.3, 0.4, 0.2, <0.05]  |
| BH22/05                   | 5            | 1-3           | DRY            | No, dry                |             | <0.05               | <0.05           | <b>2.7</b> [<0.05, <0.05, <0.05, <0.05] | <b>10.4</b> [20.2, 20.2, 19.7, 20.1] | <0.05                | <0.05                  | 7.8 [7.5, 5.6, 2.9, 2.9]    |
| BH22/06A                  | 5            | 1-4           | 2.1-2.3        | Partially              |             | <0.05               | <0.05           | <0.05                                   | <b>11.1</b> [19.8, 19.8, 19.9, 19.9] | <0.05                | <0.05                  | 14 [11.9, 11.5, 9.3, 0.6]   |
| BH22/07                   | 5            | 1-4           | 1.9-2.3        | Partially              |             | <0.05               | <0.05           | <0.05                                   | <b>13.2</b> [19.9, 20.0, 19.9, 20.1] | <0.05                | <0.05                  | 34.3 [28.5, 28, 24.1, 0.2]  |
| BH22/08                   | 5            | 1-8           | 1.8-3.3        | Partially to mostly    |             | 0.1                 | <0.05           | <0.05                                   | <b>8.3</b> [19.9, 20.0, 20.0, 20.4]  | <0.05                | <0.05                  | 3.6 [2.9, 2, 2.3, 0.2, 0.5] |
| (WS) TP22/01              | 5            | 1-2.6         | DRY            | No, dry                |             | 0.1                 | 0.2             | 0.4                                     | <b>7.7</b> [19.9, 20.2, 19.9, 17.9]  | <0.05                | <0.05                  | 15.4 [0.8, 0.2, 0.7, <0.05] |
| <b>Worst case example</b> | -            | -             | -              | -                      | -           | <b>0.4</b>          | <b>0.2</b>      | <b>2.7</b>                              | <b>6.8</b>                           | <b>0.2</b>           | <b>0.05</b>            | <b>34.3</b>                 |

\*Where 0.0%, 0.0l/hr or 0.0ppm recorded within results, limit of detection used (0.05%, 0.05l/hr or 0.05ppm) as worst case scenario

## 8.4 Description of Monitoring Data

### 8.4.1 Response Zone

All of the response zones installed within the exploratory holes were reflective of the Made Ground. Shallow 'perched' groundwater was present within the Made Ground within six of the nine installations. This perched groundwater is likely to reflect the underlying low permeability (clay) deposits or low permeability bands within the Made Ground. Typically, installations where perched groundwater was encountered still included approximately 1m of unsaturated element and therefore will have allowed the entry of ground gas into the installation. Three of the installations did not contain any perched water during the monitoring rounds and were recorded as dry.

### 8.4.2 Atmospheric Conditions

Monitoring was carried out on a total of five different occasions post ground investigation. Atmospheric pressures were recorded by the field instrument and weather data obtained from the meteorological office. The maximum atmospheric pressure recorded on the days of monitoring was 1035mb and the minimum was 979mb. The results indicate the following:

|                |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| Return visit 1 | 3 <sup>rd</sup> January 2023: 1018-1008-1000mb (falling)                                 |
| Return visit 2 | 9 <sup>th</sup> January 2023: 989-1003-1008mb (rising)                                   |
| Return visit 3 | 17 <sup>th</sup> January 2023: 987-979-981mb (steady)                                    |
| Return visit 4 | 23 <sup>rd</sup> – 24 <sup>th</sup> January 2023: 1033-1038-1033mb (rising then falling) |
| Return visit 5 | 30 <sup>th</sup> January 2023: 1025-1019-1025mb (falling then rising)                    |

### 8.4.3 Data Description

There are a total of 45 readings taken as part of the post fieldwork monitoring programme. A description of these data is provided below.

There were no elevated concentrations of methane above the guideline threshold of 1%. All boreholes on all occasions recorded concentrations of methane below the limit of detection (<0.05%) with the exception of one location on one occasion whereby a concentration of 0.2% was recorded.

Elevated concentrations of carbon dioxide above the guideline threshold of 5% were not recorded in any installations on any occasion. The maximum concentration (2.7%) was recorded within one location on one occasion all other readings within this location were recorded as below the limit of detection. The majority of all readings (93% of the dataset) recorded concentrations of carbon dioxide below the limit of detection.

Depleted concentration of oxygen, below 16%, were generally not recorded (84% of the dataset included concentrations above the 16% guideline threshold). Within seven installations, on one occasion, depleted concentrations were recorded. The minimum concentration was recorded as 6.8%.

Concentrations of carbon monoxide were recorded below the limit of detection (<0.05ppm) within all installations on all occasions with the exception of one borehole whereby a concentration of 0.2ppm was recorded on the fourth return visit. Concentrations of hydrogen sulphide were recorded below the limit of detection (<0.05ppm) on all occasions within all boreholes.

VOC readings (using photo-ionizing detector) were taken during the monitoring rounds. Readings were not elevated (generally recorded as <10ppm) although BH22/07 recorded concentrations >20ppm on four occasions with a maximum recorded concentration of 34.3ppm. This likely reflects the hydrocarbon odours encountered within this location (see Table 4-3).

## 8.5 Assessment of Ground Gas Regime

The monitoring data described above has been assessed in accordance with CIRIA 665 [38] and BS8485 [40]. In accordance with this guidance the reliability of this data and thus characterisation of the ground gas regime is influenced by several factors described below.

- There is a sufficient set of monitoring data from the recent ground investigation to enable an assessment of the ground gas regime. Five return monitoring visits were carried out within all nine exploratory holes, a total of 45 readings were obtained on all determinands.
- The monitoring data is generally consistent with the nature and extent of the source (Made Ground). The Made Ground is typically about 3-5m thick, but locally up to 8m. Occasional hydrocarbon odours, coal and clinker were recorded.
- The response zones of all installations contained a suitable length of unsaturated element with allows the ingress of ground gas from the target strata. Three of the nine wells were continuously recorded as dry. The remaining five wells contained some shallow perched water, partially flooding the wells. One well, BH22/04 recorded perched water that entirely flooded the response zone on two occasions, the remaining three occasions recorded >0.7m of unsaturated element. The majority of other wells contained at least 1m of unsaturated element on all occasions.
- The monitoring has been carried out during steady to rising and falling atmospheric pressure conditions.
- There were no elevated concentrations of methane above the guideline threshold of 1%. All boreholes on all occasions recorded concentrations of methane below the limit of detection (<0.05%) with the exception of one location on one occasion whereby a concentration of 0.2% was recorded.
- Concentrations of carbon dioxide above 5% were not recorded in any installations on any occasion. The maximum concentration (2.7%) was recorded within one location on one occasion all other readings within this location were recorded as below the limit of detection. The majority of all readings (93% of the dataset) recorded concentrations of carbon dioxide below the limit of detection.
- The recorded gas flow rates were consistently low with the majority of occasions recording a flow rate below the limit of detection (<0.05l/hr). The maximum recorded flow (0.4l/hr) was recorded in one location on one occasion, on all other occasions recording a flow of <0.05l/hr or a negative flow reading (-0.2l/hr).
- The most elevated VOC reading was 34.3ppm, located within BH22/07. The majority of readings from this well were recorded as >20ppm. This likely reflects the hydrocarbon odours encountered within this location. Slightly elevated concentrations were also recorded within BH22/06A (>10ppm).
- A total of three ground gas samples were obtained from the Site on 23<sup>rd</sup> January 2023. The majority of all determinands tested were below the limit of detection. Between the three samples the concentrations of carbon dioxide ranged between 44000ppm (4.4%) and 710ppm (0.07%). Methane concentrations ranged between 4400ppm (0.4%) and 43ppm (0.004%). Oxygen concentrations ranged between 6% and 9.7%. For carbon

dioxide and methane the readings were below the guideline thresholds of 5% and 1% respectively. However depleted concentrations of oxygen were consistently below the guideline threshold of 16%. Very small concentrations of propane and ethane were recorded within one sample (7.5ppm and 13ppm respectively).

- The borehole hazardous gas flow rate (Q<sub>hg</sub>) values for all of the individual data were consistent with Characteristic Situation 1 (CS1).

The data described above are generally considered reliable for an initial assessment of the ground gas regime having been obtained on five occasions from nine installations with appropriate response zones and under varying atmospheric conditions. The data are consistent, both with the data set itself, the observed ground conditions and previous assessments completed in 2014.

The calculated worst case gas screening value (GSV) for CO<sub>2</sub> and CH<sub>4</sub> (max. concentration x max. flow rate) have been determined as both falling within Characteristic Situation 1.

On the basis of all of the above, the hazardous ground gas regime on Site is considered to fall within Characteristic Situation 1 (CS1).

## 9 Waste Management

### 9.1 Introduction

The proposed development will likely involve earthworks where some material will likely require removal from the Site. The following section provides a preliminary waste classifications for initial planning and costing purposes. The assessment rationale is presented in Appendix F.

### 9.2 Preliminary Waste Classification

#### 9.2.1 Code of Waste

The most applicable codes for the material on Site (Made Ground) are 17 05 03 and 17 05 04. These are mirror codes that will require further assessment to classify. Uncontaminated natural soils would be classified as Inert (17 05 04).

#### 9.2.2 Chemical composition of waste

A total of 59 no. soil samples were recovered during the ground investigation and were subject to chemical analysis. A total of 57 no. samples were taken of the Made Ground and 2 no. samples were taken from the natural strata just below the Made Ground.

Where elevated concentrations of pH (>11.5) were recorded and assigned potentially Hazardous Waste, this is likely due to the presence of crushed concrete within the Made Ground. Concrete is non-hazardous (waste code 17 01 01) therefore this Made Ground material is unlikely to be determined as Hazardous Waste (refer to Table 4-1 for the description of Made Ground encountered).

Based on the above, in the Made Ground, a total of 5no. samples (8% of dataset) were classified as 17 05 03 (soils and stones containing hazardous substances) and 54no. samples (92% of dataset) as 17 05 04 (soils and stones not mentioned in 17 05 03, e.g. non-hazardous).

Below is a summary of the samples containing hazardous substances.

**Table 9-1 Samples classified as potentially Hazardous Waste**

| Sample   | Depth (m bgl) | Strata      | Contaminant  | Reason            | Comment                            |
|----------|---------------|-------------|--------------|-------------------|------------------------------------|
| TP22/07  | 0.2-0.4       | Made Ground | TPH (C6-C40) | HP7, HP8, HP11    | Carcinogenic and mutagenic         |
| TP22/07  | 1.0-1.2       | Made Ground | TPH (C6-C40) | HP7, HP11         | Carcinogenic and mutagenic         |
| BH22/04  | 3.2-3.4       | Made Ground | Zinc oxide   | HP14              | Ecotoxic                           |
| BH22/01  | 3.5           | Made Ground | TPH (C6-C40) | HP3(i), HP7, HP11 | Flammable, carcinogenic, mutagenic |
| CPT22/01 | 1.0           | Made Ground | TPH (C6-C40) | HP7, HP11         | Carcinogenic and mutagenic         |

The above information provides a preliminary assessment for off-site disposal to non-hazardous landfill or treatment facilities. If the waste is to be disposed of to a hazardous or inert landfill, the waste will need to meet the relevant WAC criteria.

Visible fragments of suspect asbestos containing materials were not recorded during the ground investigation. A total of 57 samples were screened (subject to microscopic examination) for asbestos. Nine samples (approximately 16% of data set) detected asbestos. All of these samples were quantified. Three samples recorded concentrations below the limit of quantification (<0.001%). The remaining six samples recorded concentrations above the limit of quantification but below the hazardous waste threshold (0.1%).

### 9.2.3 Disposal to Landfill

A total of 11 samples were scheduled for Waste Acceptance Criteria (WAC). Eight samples (73% of the dataset) recorded concentrations of all determinands that met the Inert Waste Landfill criteria. Two samples (18% of the dataset) recorded concentrations of some determinands (namely mineral oil, total PAH, antimony, mercury and pH) elevated above the Inert Waste Landfill criteria but suitable for Stable Non-Reactive Hazardous Waste in Non-Hazardous Landfill. One sample (9% of the dataset) recorded a concentration of Loss on Ignition that exceeds the Hazardous Waste Landfill criteria. A further 18 samples were scheduled for Loss on Ignition testing. All samples recorded concentrations below the Hazardous Waste Landfill criteria (i.e. <10%).

**Table 9-2 Summary of Waste Acceptance Criteria results**

| Location ID | Depth (mbgl) | Waste Acceptance Criteria Results                                                                                                                     |
|-------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| TP22/02     | 1.0-1.1      | Meets Inert Waste Landfill                                                                                                                            |
| BH22/08     | 1.5          | Meets Inert Waste Landfill                                                                                                                            |
| BH22/07     | 1.5          | Exceeds Inert Waste Landfill, meets Stable Non-Reactive:<br>Mineral oil – 650mg/kg<br>Total PAH – 153mg/kg<br>pH – 10.4<br>Antimony – 0.1mg/kg        |
| OT22/01     | 1.3-1.5      | Meets Inert Waste Landfill                                                                                                                            |
| TP22/07     | 2.2-2.4      | Meets Inert Waste Landfill                                                                                                                            |
| (WS)TP22/08 | 0.5          | Meets Inert Waste Landfill                                                                                                                            |
| (WS)TP22/05 | 0.5          | Exceeds Inert Waste Landfill, meets Stable Non-Reactive:<br>pH – 9.8<br>Mercury – 0.0373mg/kg                                                         |
| (WS)TP22/01 | 1.8          | Meets Inert Waste Landfill                                                                                                                            |
| BH22/01     | 1.0          | Exceeds Hazardous Waste Landfill:<br>Loss on Ignition – 12.1%<br><br>Exceeds Inert Waste Landfill, meets Stable Non-Reactive:<br>Total PAH – 122mg/kg |
| CPT22/02    | 0.45-0.6     | Meets Inert Waste Landfill                                                                                                                            |
| BH22/08     | 0.2          | Meets Inert Waste Landfill                                                                                                                            |

In addition to the above, Total Organic Carbon (TOC) testing was scheduled on a further 28 samples. All samples, with the exception of one, recorded concentrations of TOC below the Inert Waste Landfill criteria (i.e. <3%). One sample location within BH22/04 at 2.4mbgl recorded a marginally elevated concentration of TOC (3.1%).

### 9.3 Concluding comments

Notwithstanding this preliminary assessment, it is the earthwork contractor's responsibility, in association with the operator and / or owner of the landfill to classify the materials for disposal in line with current guidance. Landfill waste acceptance criteria (WAC) leachate testing and classification prior to disposal to landfill should be undertaken to confirm the waste classification of the natural soils.

## 10 Geoenvironmental Risk Assessment

### 1.1 General approach

In the UK, the assessment of risk from contamination follows the source-pathway-target approach. If one of these three elements is absent it is considered that there is no risk of harm. If, however, there is considered to be a linkage between any given source and any given target / receptor then a risk-based approach is used to assess the significance or impact of any such linkage.

|                 |                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source</b>   | The contaminants that have the potential to negatively affect human health and/or the health of the environment (i.e. the hazard). |
| <b>Pathway</b>  | The potential route by which a receptor may come into contact with the source.                                                     |
| <b>Receptor</b> | The specific group of human beings or aspect of the environment (e.g. controlled waters) that could be affected by the source.     |

Risks are defined as the probability of an event occurring combined with the severity of the consequence of that event occurring. Particularly, to assess the risk to site end users posed by any given source, the sensitivity of each receptor is considered. For example, the concentration of contamination acceptable at a site to be developed as a residential property, with a garden used to grow vegetables and accessible to young children, is set lower than that for a commercial site where soil is exposed in minor areas of landscaping and the only long-term users of the site are adults. Similarly, a site overlying a major aquifer supplying potable water to a large population will be considered more stringently than a site overlying an impermeable geology with only minor seepages of groundwater.

### 1.2 Climate Change

It is accepted that the climate is changing and that this will affect future weather patterns. The Environment Agency [43] requires factoring climate change into risk assessments and remedial solutions. The British Standard, 'Adaptation to Climate Change – Principles, Requirements and Guidelines' [44] states that 'climate change impacts shall be assessed comprehensively...including...contamination' and should focus 'upon understanding the implications of future climate change trends and climate events over the full lifespan of a decision'. The National Planning Policy Framework [1] requires new development to contribute to 'mitigating and adapting to climate change' and to 'minimise vulnerability and increase resilience' to the range of impacts arising from climate change.

The changes to weather patterns in the UK may include: an increase in warmer weather; an increase in the frequency and intensity of rainfall events; and an increase in the duration or frequency of dry spells in the summer. Such events are also likely to become more extreme. There is the potential for these scenarios to impact upon potential contaminant migration pathways in particular with respect to both hazardous ground gas and contaminated groundwater via permeable strata, during both construction and operation of the proposed development. As ground conditions at the proposed development may be vulnerable to extreme weather events due to climate change during the demolition, construction and operation phases, these potential impacts have been considered in the risk assessment.

### 1.3 Conceptual Site Model (CSM)

The potential risks posed to human health and the environment by ground contamination at this Site have been evaluated by a generic quantitative risk assessment which incorporates the 'source-pathway-receptor' identification and assessment methodology in accordance with the Land Contamination Risk Management [2]. The risk assessment process therefore involves the identification of each source based on the Site setting information and ground investigation results and the identification of the relevant exposure pathway and each potential receptor. The potential risks to the receptors are then assessed by considering the potential effect of the source on the receptor as well as the likelihood of a pathway linking the two, i.e. a contaminant linkage as discussed above. The conceptual Site model has been considered with respect to the proposed development.

### 1.4 Contamination sources

Potential contamination sources from former uses of the Site have been identified following a review of Site setting and desk study information and from information gained during the ground investigation. The potential sources of contamination and associated contaminants of concern are listed in Table 10-1.

Although some elevated concentrations were recorded within the groundwater samples, no significant gross contamination in either the shallow perched water or the deep monitoring wells was observed. The exceedances didn't show any horizontal or vertical correlation, and therefore are not representative of a plume or singular source of contamination. There is also no evidence of continuity between the shallow perched water and deeper aquifer. The results were also variable between sampling periods. This indicates that although the groundwater has been impacted to some degree, it would appear to be a regional issue and not attributable to a singular source on the subject Site, therefore groundwater as a source of contamination has not been considered further within this assessment. The ground gas regime has been assessed as Characteristic Situation 1, therefore it is not considered a source of contamination and has not been assessed further.

**Table 10-1: Principal potential sources of contamination at the site**

| Potential Source                                                                                                         | Location | Likely Age | Potential contaminants of concern              |
|--------------------------------------------------------------------------------------------------------------------------|----------|------------|------------------------------------------------|
| Made Ground (soil) from previous Site uses including Bradford Ironworks, Beswick Goods Station and associated rail land. | On Site  | >100 years | Heavy metals, PAHs, asbestos, VOCs, SVOCs, TPH |

### 1.5 Pollutant linkages

Site specific pathway receptor linkages have been identified for the site in Table 9-2 with respect to the sources outlined above and the proposed development. Ashton Canal has also not considered further within this assessment as there is no plausible pathway that could impact this sensitive receptor. The Canal is likely to be banded by low permeability materials (clay) and the presence of the Metrolink cutting will inhibit any contamination migration to the Canal.

Table 10-2: Receptors and pathways

| Receptor          |                                                                                                                             | Pathway                                                                                                                                                                                              |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Human Health      | Earthwork contractors engaged with proposed development                                                                     | Direct contact and dermal uptake, soil and dust ingestion.                                                                                                                                           |
|                   | Users of neighbouring land (during enabling works and construction)                                                         | Soil and dust inhalation during enabling works and construction                                                                                                                                      |
|                   | Future Site users / visitors                                                                                                | Direct contact and dermal uptake, soil ingestion.                                                                                                                                                    |
| Controlled Waters | Secondary A Aquifer                                                                                                         | Leaching and migration of potential contamination via preferential pathways (i.e. probing / drilling through the low permeability superficial deposits).                                             |
|                   | River Medlock                                                                                                               | Leaching and migration of potential contamination via preferential pathways (i.e. piling through the low permeability superficial deposits). Migration toward the River via the Coal Measure strata. |
| Built environment | Water supply pipework                                                                                                       | Direct contact with contaminated soils.                                                                                                                                                              |
| Flora             | Areas of soft landscaping located directly over Made Ground materials (understorey and wildflower planting, SUDs planters,) | Root uptake from underlying contaminated soils                                                                                                                                                       |

Based on the results of the intrusive ground investigation and the preliminary conceptual Site model, the geoenvironmental risk assessment is presented in Table 10-3 below.

Table 10-3 Results of Geoenvironmental Risk Assessment

| Source      |                                                |               | Hazard to Receptor [bold text] / Pathway [normal text]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Risk Assessment (following CIRIA C552) |                |                | Comment on hazard realisation [normal text]                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Origin      | Contaminants of concern                        | Zone affected |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Consequence                            | Probability    | Risk           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Made Ground | Heavy metals, PAHs, asbestos, VOCs, SVOCs, TPH | On Site       | <b>Description of source:</b> Site largely occupied by residential buildings and railway land associated with surrounding industrial uses (e.g. Bradford Iron Works) between the 1890s and 1970s. The entire area was cleared in the 90s with Stadium construction taking place by early 2000s. To facilitate Stadium construction remediation took place across Site and approximately 30,000m3 of ‘contaminated material’ was excavated and removed. In 2010 another phase of remediation took place which partly covered the site (east). This work involved some lime stabilisation and excavation of contaminated materials associated with the canal arm.<br>The recent ground investigation encountered: hardstanding underlain by 0.4m of concrete and limestone gravel (Type 1) followed by Made Ground / fill (silty sandy gravel or a sandy gravelly clay) with gravel fragments of concrete, brick, clinker, sandstone, limestone, quartz and rare glass. Occasionally strong hydrocarbon odours observed. No concentrations of inorganic / organic determinands above commercial / industrial thresholds. Occasional samples recorded concentrations of some inorganic determinands (lead and arsenic) above residential thresholds. Approximately half of the samples included elevated concentrations of some PAHs above residential thresholds. Approximately 30% of the samples included concentrations of TPH above residential thresholds (but speciated fractions all below individual thresholds. Suspected asbestos containing materials not observed during investigation but chrysotile and amosite identified under microscope in laboratory (approximately 16% of samples). 1/3 of samples recorded concentrations below the limit of quantification (<0.001%). 2/3 samples recorded concentrations above limit of quantification but below hazardous waste threshold (0.1%).<br>The Site has an extensive mining history with Bradford Colliery located to SE and numerous shafts nearby. As well as Bradford seams (located at depth beneath Site) Charlotte Seam and Openshaw seams also recorded as worked (these seams sub-crop at Site). The mining history has impacted groundwater across this area, and groundwater known to be of relatively poor quality. Samples analysed from both localised perched groundwater within Made Ground and from Coal Measures (Secondary Aquifer). Although some exceedances were recorded against environmental and drinking water thresholds, the groundwater samples did not identify any significant gross contamination in either the shallow or the deep monitoring wells. |                                        |                |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|             |                                                |               | <b>Human health impacts to earthworks contractors</b><br><br>Direct contact and dermal uptake, soil and dust ingestion and inhalation during earthworks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Medium                                 | Low likelihood | Moderate / Low | Potential for earthwork contractors to be exposed to contaminated soils during earthworks. Exposure time will be relatively limited.<br>Implementation of standard good practice and Health and Safety precautions including dust control and PPE will mitigate risks.                                                                                                                                                                                              |
|             |                                                |               | <b>Human health impacts to users of neighbouring land</b><br><br>Soil and dust inhalation during earthworks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Medium                                 | Unlikely       | Low            | Potential for contaminated dusts generated during earthworks to migrate off-site. Nearest residential neighbours are approximately 150m east and 270m south, nearest commercial neighbours are adjacent west (National Squash Centre), 70m north (Excel House) and adjacent south (Stadium).<br>Exposure time will be relatively limited.<br>Implementation of standard good practice and Health and Safety precautions including dust control will mitigate risks. |
|             |                                                |               | <b>Human health impacts to future Site users / visitors</b><br><br>Direct contact with contaminated materials within soft landscaped areas. Soil ingestion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Medium                                 | Unlikely       | Low            | The majority of the Site will be occupied by the proposed development or and/or hardstanding, preventing direct contact with contaminants. Potential for exposure in areas of soft landscaping directly onto Made Ground. In limited areas of soft landscaping it is anticipated that suitable soil materials (thickness and quality) will be imported.                                                                                                             |
|             |                                                |               | <b>Degradation of groundwater in Secondary A</b><br><br>Leaching and migration of contamination via preferential pathways (i.e. probing / drilling through low permeable (clay) superficial deposits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Medium                                 | Unlikely       | Low            | Enhanced potential for infiltration during earthworks following hardstanding and drainage removal through preferential pathways. Leachability likely to be low (mobile contaminants already lost top ground).                                                                                                                                                                                                                                                       |
|             |                                                |               | <b>Degradation of water quality within River Medlock</b><br><br>Leaching and migration of contamination via preferential pathways (i.e. probing / drilling through low permeable (clay) superficial deposits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Medium                                 | Unlikely       | Low            | River Medlock is located around 160m north within a culvert at approximately +41.7mOD. Nearest entrance is >300m west (water levels at Gurney St, SW, are between +35.9m and +36.2mOD. Elevation of groundwater at Site +37.7mOD and +42.0mOD and flow direction indicates hydraulic continuity with culvert unlikely.                                                                                                                                              |
|             |                                                |               | <b>Impact on flora</b><br><br>Root uptake                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Minor                                  | Low likelihood | Very Low       | Made Ground has some phytotoxic element. The landscaping proposals at the Site generally comprise hardstanding with some areas of soft landscaping (on existing ground and above ground planters). Areas of soft landscaping to incorporate suitable thickness of imported sub soil and topsoil materials, required for horticultural purposes.                                                                                                                     |



# 11 Conclusions

## 11.1 Risk Assessment

The geology encountered during the ground investigation (December 2022) consists of some 5-8m of Made Ground, underlain by 10-12m of Glacial Till followed by Coal Measures strata. The Made Ground has been considered as a potential source of contamination due to its industrial history and recorded elevated concentrations of some contaminants. These have the potential to impact people and the environment (Secondary Aquifer and River Medlock). The following risk has been identified as above low:

Table 11-1 Identified risks and proposed mitigation

| Receptor (source and pathway)                                        | Risk before mitigation | Proposed mitigation                                                                                                    | Risk after mitigation |
|----------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Human Health – earthwork contractors engaged in proposed development | Moderate / Low         | Standard good practice and Health and safety precautions including dust control and PPE implemented to mitigate risks. | Low                   |

## 11.2 Concluding remarks

Below the hardstanding across the majority of the Site the Made Ground included approximately 0.2 to 0.4m of light grey concrete and limestone gravel (Type 1 style material). Occasionally a geotextile marker layer was observed which separates this material from the underlying Made Ground. The Made Ground below the geotextile generally comprised brown to dark grey silty sandy gravel or a sandy gravelly clay. The gravel includes concrete, brick, clinker, sandstone, limestone, quartz and rare glass. Occasionally a strong hydrocarbon odour was observed (BH22/01 and BH22/07 around 1mbgl).

A total of 59 samples were scheduled for chemical analysis. No concentration of any inorganic and organic determinands were recorded above commercial / industrial thresholds. Occasional samples recorded concentrations of some inorganic determinands (lead and arsenic) above residential thresholds. Approximately half of the samples recorded concentrations of some PAHs and almost 30% of the samples recorded concentrations of TPH above residential thresholds.

Suspected Asbestos Containing Materials (ACM) were not observed during the investigation. Asbestos was identified by microscope in the laboratory in approximately 16% of samples of which 1/3 recorded concentrations below the limit of quantification (<0.001%), and 2/3 recorded concentrations above the limit of quantification but below the hazardous waste threshold (0.1%)

Some elevated concentrations of some inorganic and organic determinands were recorded within both the shallow perched water (localised) and the deeper groundwater table within the Coal Measure strata. However, these elevated concentrations didn't show any horizontal or vertical correlation, and therefore are not representative of a plume or singular source of contamination. There is also no evidence of continuity between the shallow perched water and deeper aquifer (probably reflecting the presence of the intervening Glacial Till). This indicates that although the groundwater in the Coal Measures has been degraded to some degree, it would appear to be a regional issue and not attributable to a singular source on the subject Site.

The ground gas regime has been assessed as Characteristic Situation 1. This is consistent with the assessment completed in 2014. Therefore, no mitigation is required to protect against potentially hazardous ground gas accumulation.

Waste characterisation has been carried out, almost all materials on Site have been classified as potentially Non-Hazardous Waste (92% of dataset). The remaining 8% of samples were assessed as potentially Hazardous Waste due to elevated TPH and zinc oxide. Notwithstanding this preliminary assessment, it is the earthwork contractor's responsibility, in association with the operator and / or owner of the landfill to classify the materials for disposal in line with current guidance. Landfill waste acceptance criteria (WAC) leachate testing and classification prior to disposal to landfill should be undertaken to confirm the waste classification of the natural soils.

The landscaping proposals at the Site generally comprise hardstanding with some areas of soft landscaping (on existing ground and above ground planters). Areas of soft landscaping will incorporate suitable thicknesses of imported sub soil and topsoil materials, which are also required for horticultural purposes.

The detailed UXO assessment concluded that the risks associated with UXO are Low therefore no further actions are required for the proposed development.

### 11.3 Recommendations

No formal Remediation Strategy is required for the Site owing to the encountered ground conditions, proposed works and assessed risks however the activities should be managed appropriately in line with standard good practice. These are outlined within following chapter (Chapter 12).

## 12 Remedial Approach

### 12.1 General

It is understood that a contractor (i.e. the Principal Contractor under Construction (Design and Management) Regulations 2015 (CDM 2015)) [23] will be appointed to undertake the demolition of the City shop and complete below ground grouting works, and by proxy the remediation work. This may require the engagement of a specialist subcontractors for some aspects of the work.

There are no significant risks identified at the Site. Slightly elevated concentrations of some organic and inorganic determinands were recorded however these were all below the relevant commercial land use criteria. Asbestos fibres and asbestos containing material was detected at the Site in a small number of samples (16% of the dataset), all concentrations were below the Hazardous Waste threshold of 0.1%.

### 12.2 Remedial approach

#### 12.2.1 Protection of earthwork contractors

The potential for direct contact and dust inhalation (including asbestos fibres) during the enabling works and any subsequent below ground work will be mitigated by a combination of the measures set out below. The measures comprise;

- Avoiding below ground excavations / earthworks not required for proposed development.
- Ensuring awareness of the potential for contamination in the earthworks workforce engaged in any below ground works by the provision of briefing and Site induction including description of the potential for and the nature of potential contaminants and setting out the provisions being implemented on Site.
- Appropriate asbestos awareness training for all staff carrying out excavation works due to the asbestos containing material and fibres encountered during the ground investigation (note the encountered concentrations were all below the Hazardous Waste threshold of 0.1%).
- A 'Watching Brief' to be undertaken during excavation of Made Ground materials beneath the City Shop where no recent ground investigation has taken place.
- Providing an appropriate level of personal protective equipment (PPE) and ensuring that this is worn at all times;
- Ensuring that supplementary PPE that may become necessary (e.g. RPE) are immediately available to be used if required;
- Ensuring a good standard of hygiene with the consumption of food and drink permitted only in designated areas. Smoking will not be permitted on Site;
- Unforeseen contamination – addressed within the contractors Construction & Environmental Management Plan.
- Suitable surface water control measures in place.
- Ensuring good construction practice (including appropriate mitigation measures) is followed during excavation and any below ground works to prevent the generation and the migration of dusts created by below ground works and other construction activities; and
- In the unlikely event of a requirement for entry into below ground confined spaces, precautions will be adopted to accord with HSE guidance and Regulations [24].

Once the proposed development is complete it is anticipated that the majority of the Made Ground will have been encapsulated by hardstanding. This significantly reduces the on-going risk from direct contact or dust inhalation.

### 12.2.2 Protection of surrounding Site users / visitors

The potential for dust inhalation (including asbestos fibres) during earthworks will be mitigated by ensuring good construction practice to prevent the generation and the migration of dusts created by below ground work activities.

The Control of Asbestos Regulations (CAR) 2012 [45] requires actions to ensure the protection of workers and general public from asbestos exposures resulting from work activities. The Contractor is required to put in place appropriate measures to deal with dust and the identified contamination during the works. This is particularly important when moving Made Ground soils which are known to be contaminated with asbestos.

Once the proposed development is complete it is anticipated that the majority of the Made Ground will have been encapsulated by hardstanding. This significantly reduces the on-going risk from direct contact or dust inhalation.

### 12.2.3 Unforeseen contamination encountered

The ground investigation data does not indicate the presence of widespread and/ or gross contamination. However, there is a potential that unforeseen contamination may be present on the Site which may be encountered during the enabling works and construction of the proposed development. The potential risks related to any such contamination will be mitigated by the following management regime;

1. The Contractor's tool box talk will alert the construction workforce to the potential for such unforeseen contamination. Encountering any such unforeseen contamination will require immediate cessation of excavation and notification of the Contractor's Site Manager and the Engineer;
2. In the event of any such unforeseen contamination being encountered, an appropriately qualified environmental specialist will be contacted and will visit the Site as soon as practicable (but within a minimum of 48 hours) to determine the need for and scope of any remedial action. Proposals for any such action (investigation, analysis, monitoring or remedial action) will be discussed and agreed with the local authority (and EA if appropriate) prior to implementation.

### 12.2.4 Spoil disposal

To manage waste and off-site disposal routes and costs, soils should be segregated by the Contractor during excavation. It is important to segregate soils to maximise sustainability and disposal or re-use options and provide a cost benefit. The Contractor will need to be able to demonstrate this and provide a method statement for how it will approach the management of waste soil and other material.

The majority Made Ground at the Site is likely to be classified as Non-Hazardous Waste. Notwithstanding this preliminary assessment, it is the earthworks contractor's responsibility, in association with the operator and / or owner of the landfill to classify any such materials for disposal in line with current guidance. Landfill waste acceptance criteria (WAC) leachate testing and classification prior to disposal to landfill should be undertaken to confirm the waste classification. Where materials are retained for re-use on Site, these will require segregation and separate stockpiling away from any contaminated arisings. The material will need to meet the appropriate chemical and geotechnical requirements as set out in the Earthworks specification. Where soft landscaping is proposed, materials will need to meet the relevant horticultural requirements.

Natural uncontaminated soil arisings will be classified as Inert Waste.

Excavated materials may need to be temporarily stockpiled whilst awaiting disposal. The materials should be stockpiled in accordance with the following, in addition to any other good practice or legal requirements:

In order to minimise waste disposal costs, soils excavated should be segregated during excavation based on visual and olfactory evidence of contamination, and stockpiled separately.

All stockpiles will be placed in an impermeable area of the Site (e.g. concrete in good condition with no surface water drains), covered with impermeable sheeting and secured.

#### **12.2.5 Obstructions**

Due to the development history of the Site area and proposed Improvement Works, encountering sub-surface obstructions from former structures cannot be discounted. Photographs and logs with measurements will be required before removal to record such features and to delineate the extent, size and orientation of previous building foundations, other historic obstructions or redundant buried structures.

#### **12.2.6 Soft landscaping**

The landscaping proposals at the Site generally comprise hardstanding with some areas of soft landscaping (on existing ground and above ground planters). Areas of soft landscaping will incorporate suitable thicknesses of imported sub soil and topsoil materials, which are also required for horticultural purposes.

#### **12.2.7 Areas not investigated**

During the investigation the area beneath the existing City Shop was not investigated. It is broadly considered, that based on the Site history, the material beneath the shop will be similar to those encountered within the surrounding area. However, it is recommended that a 'Watching Brief' is completed by suitably qualified environmental personnel during any excavations to confirm the nature of this material. Where materials present potential contamination, the remedial approach outlined above within Section 12.2.3 (unexpected contamination) is implemented.

### **12.3 Verification / Completion**

Based on the findings of the ground investigation and the nature of the remediation that has already taken place across the Site, the proposed works being carried can be completed under CDM regulations without the need for a formal Remediation Strategy. In order to demonstrate the works are completed in line with CDM regulations, a short report will be prepared that collates all the evidence to demonstrate standard good construction practice was implemented, spoil was appropriately disposed of, and no unexpected contamination was encountered. This will be the responsibility of the Principal Contractor undertaking the works and shall be documented within their Health and Safety File upon completion of the proposed works.

## References

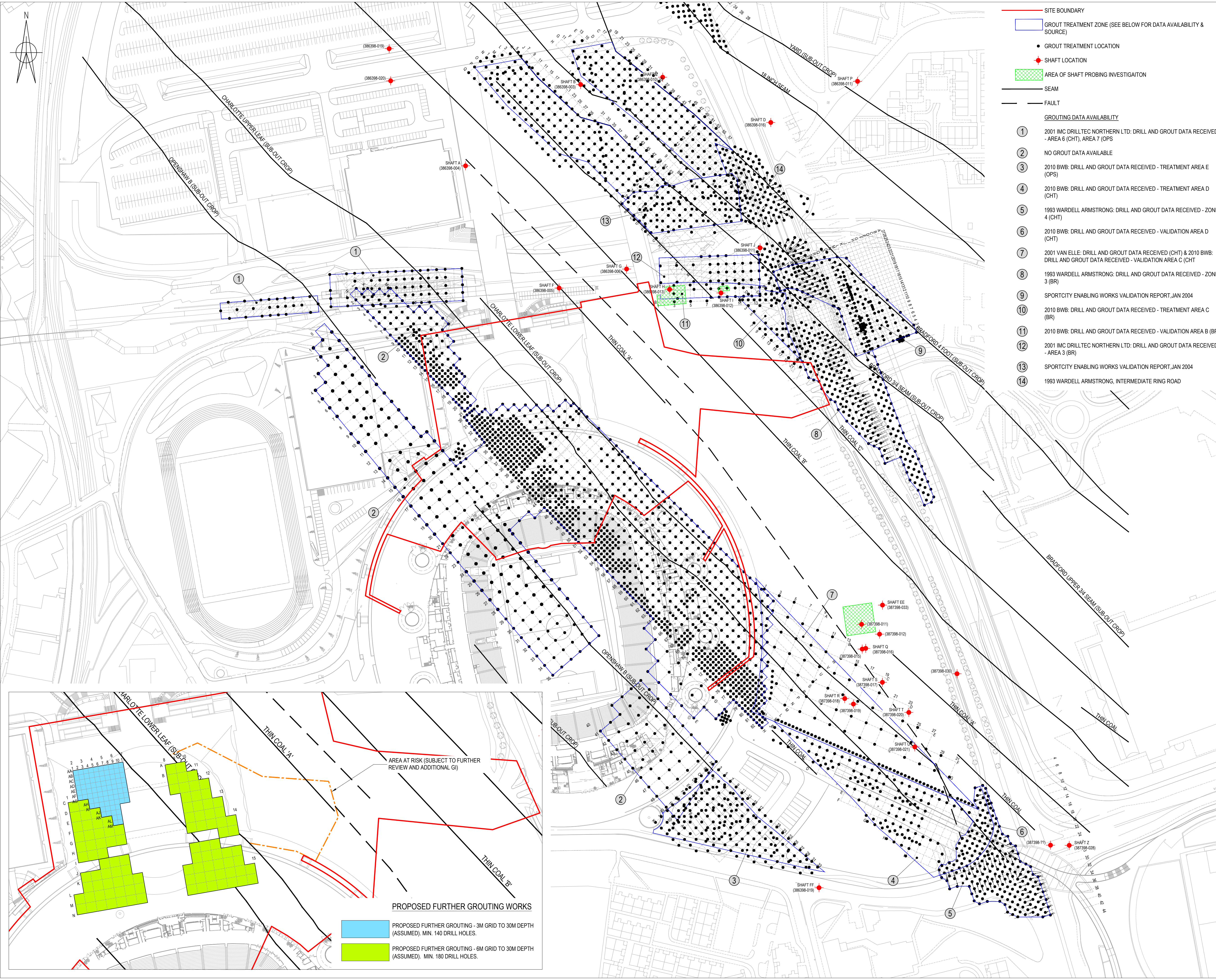
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## Appendix A Relevant Drawings

| Drawing Number             | Drawing Title                                                               |
|----------------------------|-----------------------------------------------------------------------------|
| NSE-BHE-XX-XX-DR-CG-001003 | Existing grout treatment plan                                               |
| NSE-BHE-XX-XX-DR-CG-001008 | Constraints identified during ground investigation                          |
| NSE-BHE-XX-XX-DR-CG-002002 | Mining Constraints Plan                                                     |
| NSE-BHE-XX-XX-DR-CG-003001 | Cross section location plan showing as built ground investigation locations |
| NSE-BHE-XX-XX-DR-CG-003002 | Cross section 1                                                             |
| NSE-BHE-XX-XX-DR-CG-003003 | Cross section 2                                                             |
| NSE-BHE-XX-XX-DR-CG-003004 | Cross section 3                                                             |



- LEGEND**
- SITE BOUNDARY
  - GROUT TREATMENT ZONE (SEE BELOW FOR DATA AVAILABILITY & SOURCE)
  - GROUT TREATMENT LOCATION
  - SHAFT LOCATION
  - AREA OF SHAFT PROBING INVESTIGATION
  - SEAM
  - FAULT
- GROUTING DATA AVAILABILITY**
- 2001 IMC DRILLTEC NORTHERN LTD: DRILL AND GROUT DATA RECEIVED - AREA 6 (CHT), AREA 7 (OPS)
  - NO GROUT DATA AVAILABLE
  - 2010 BWB: DRILL AND GROUT DATA RECEIVED - TREATMENT AREA E (OPS)
  - 2010 BWB: DRILL AND GROUT DATA RECEIVED - TREATMENT AREA D (CHT)
  - 1993 WARDELL ARMSTRONG: DRILL AND GROUT DATA RECEIVED - ZONE 4 (CHT)
  - 2010 BWB: DRILL AND GROUT DATA RECEIVED - VALIDATION AREA D (CHT)
  - 2001 VAN ELLE: DRILL AND GROUT DATA RECEIVED (CHT) & 2010 BWB: DRILL AND GROUT DATA RECEIVED - VALIDATION AREA C (CHT)
  - 1993 WARDELL ARMSTRONG: DRILL AND GROUT DATA RECEIVED - ZONE 3 (BR)
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  - 2010 BWB: DRILL AND GROUT DATA RECEIVED - TREATMENT AREA C (BR)
  - 2010 BWB: DRILL AND GROUT DATA RECEIVED - VALIDATION AREA B (BR)
  - 2001 IMC DRILLTEC NORTHERN LTD: DRILL AND GROUT DATA RECEIVED - AREA 3 (BR)
  - SPORTCITY ENABLING WORKS VALIDATION REPORT, JAN 2004
  - 1993 WARDELL ARMSTRONG: INTERMEDIATE RING ROAD

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Notes  
REF: ARUP, COALSEAMS AND SHAFT LOCATIONS, DRAWING NO. ARP-LAY-CG-130, REVISION C, 01.03.2010.  
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BWB CONSULTING, FIGURE 6 VALIDATION AREA C MINE STABILISATION WORKS, DRAWING NO. NTH 185/03/AREAB/F6, 02.2011.  
BWB CONSULTING, FIGURE 7 VALIDATION AREA C MINE STABILISATION WORKS, DRAWING NO. NTH 185/03/AREAA/F7, 02.2011.  
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UTILITIES & EASEMENTS ARE NOT SHOWN ON THIS DRAWING. FOR SERVICES LOCATIONS SEE BURO HAPPOLD DRAWING NO. MNS-BHE-XX-XX-DR-CV-9101, COMBINED UTILITIES, REVISION P01, 08.09.22.

POT INFORMATION 31.03.23 NG FG

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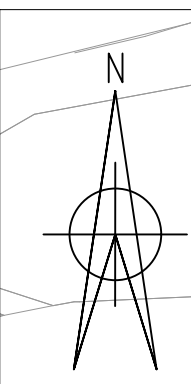
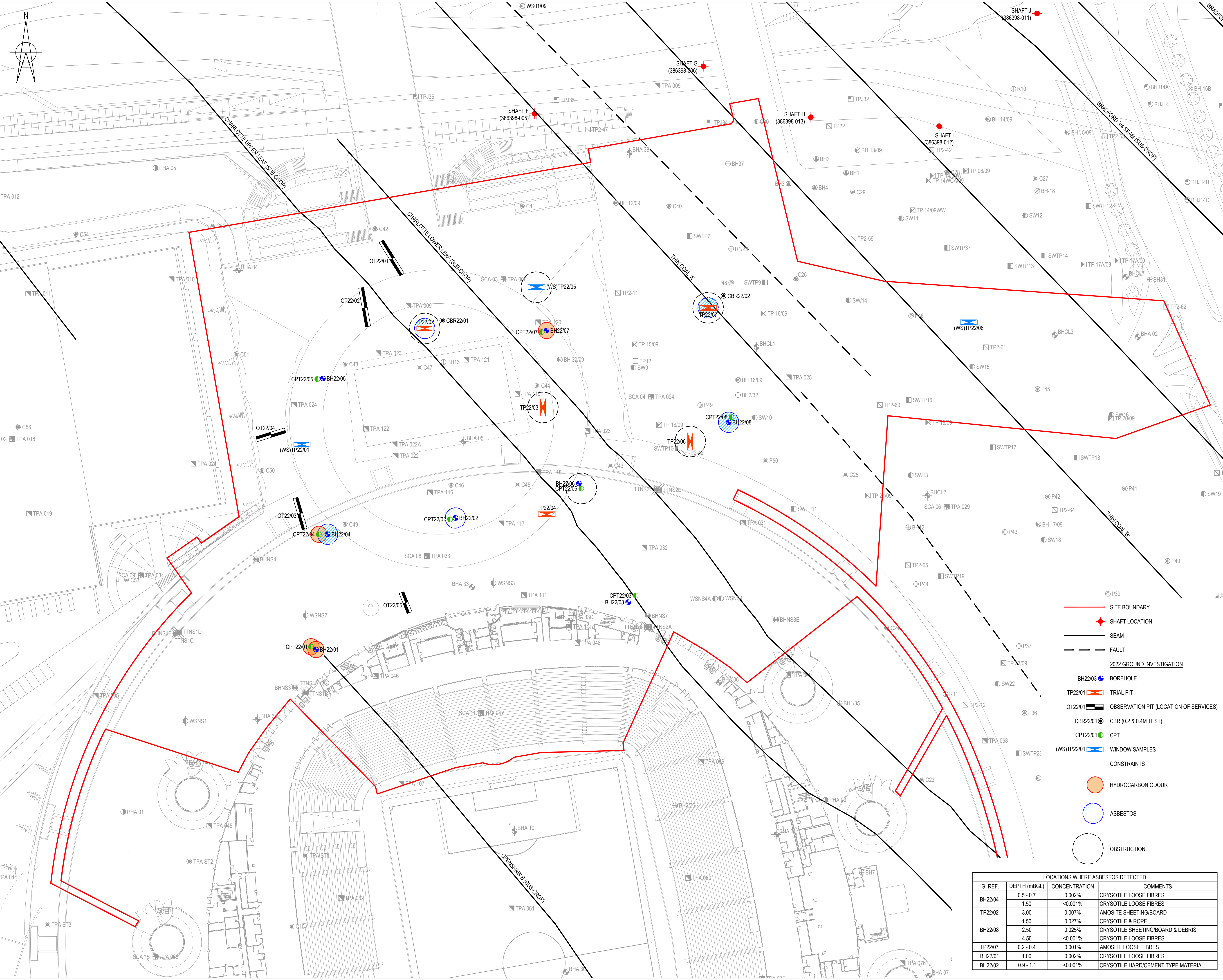
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Drg Title **MINING TREATMENT AREAS**

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Job No. **0053810**  
Date **MAR 2023**  
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**Notes**

**2022 GROUND INVESTIGATION**

Legend:

- SITE BOUNDARY
- SHAFT LOCATION
- SEAM
- FAULT
- 2022 GROUND INVESTIGATION
- BH22/03 BOREHOLE
- TP22/01 TRIAL PIT
- OT22/01 OBSERVATION PIT (LOCATION OF SERVICES)
- CBR22/01 CBR (0.2 & 0.4M TEST)
- CPT22/01 CPT
- (WS)TP22/01 WINDOW SAMPLES
- CONSTRAINTS
- HYDROCARBON ODOUR
- ASBESTOS
- OBSTRUCTION

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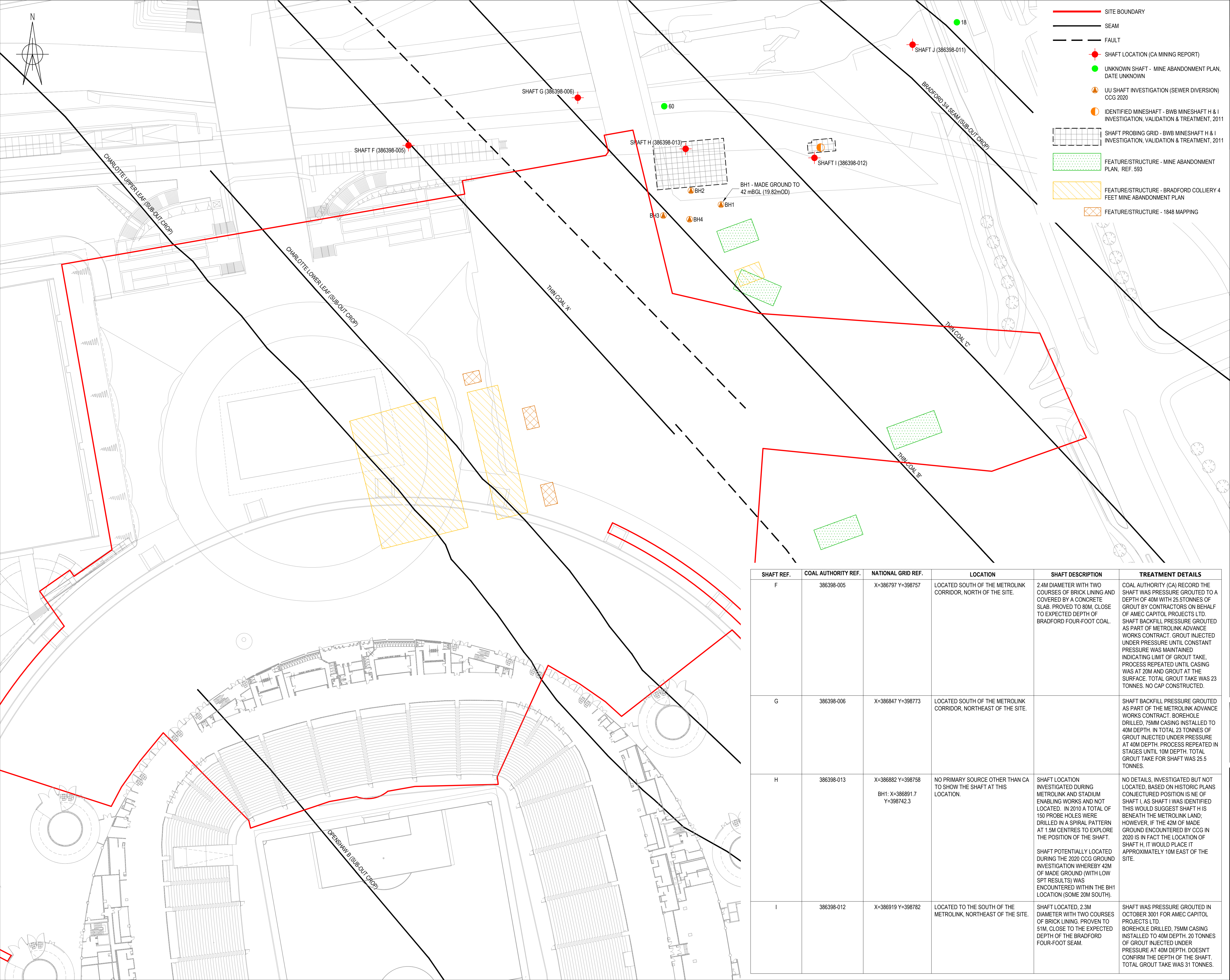
GROUND INVESTIGATION

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Checked by FG

Job No. 0053810  
Date MAR 2023  
Rev P01

Drawing No. NSE-BHE-XX-XX-DR-CG-001008

| LOCATIONS WHERE ASBESTOS DETECTED |              |               |                                     |
|-----------------------------------|--------------|---------------|-------------------------------------|
| GI REF.                           | DEPTH (mBGL) | CONCENTRATION | COMMENTS                            |
| BH22/04                           | 0.5 - 0.7    | 0.002%        | CRYSOTILE LOOSE FIBRES              |
|                                   | 1.50         | <0.001%       | CRYSOTILE LOOSE FIBRES              |
| TP22/02                           | 3.00         | 0.007%        | AMOSITE SHEETING/BOARD              |
|                                   | 1.50         | 0.027%        | CRYSOTILE & ROPE                    |
| BH22/08                           | 2.50         | 0.025%        | CRYSOTILE SHEETING/BOARD & DEBRIS   |
|                                   | 4.50         | <0.001%       | CRYSOTILE LOOSE FIBRES              |
| TP22/07                           | 0.2 - 0.4    | 0.001%        | AMOSITE LOOSE FIBRES                |
| BH22/01                           | 1.00         | 0.002%        | CRYSOTILE LOOSE FIBRES              |
| BH22/02                           | 0.9 - 1.1    | <0.001%       | CRYSOTILE HARD/CEMENT TYPE MATERIAL |



- SITE BOUNDARY

SEAM

FAULT

SHAFT LOCATION (CA MINING REPORT)

UNKNOWN SHAFT - MINE ABANDONMENT PLAN, DATE UNKNOWN

UU SHAFT INVESTIGATION (SEWER DIVERSION) CCG 2020

IDENTIFIED MINESHAFT - BWB MINESHAFT H & I INVESTIGATION, VALIDATION & TREATMENT, 2011

SHAFT PROBING GRID - BWB MINESHAFT H & I INVESTIGATION, VALIDATION & TREATMENT, 2011

FEATURE/STRUCTURE - MINE ABANDONMENT PLAN, REF. 593

FEATURE/STRUCTURE - BRADFORD COLLIERY 4 FEET MINE ABANDONMENT PLAN

FEATURE/STRUCTURE - 1848 MAPPING

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Notes

1. WHERE SHAFT COORDINATES ARE NOT AVAILABLE, PLANS HAVE BEEN OVERLAID AS ACCURATELY AS POSSIBLE. REFERENCE SHOULD BE MADE TO ORIGINAL PLANS AND EXACT LOCATIONS ON THIS PLAN CAN NOT BE RELIED UPON.

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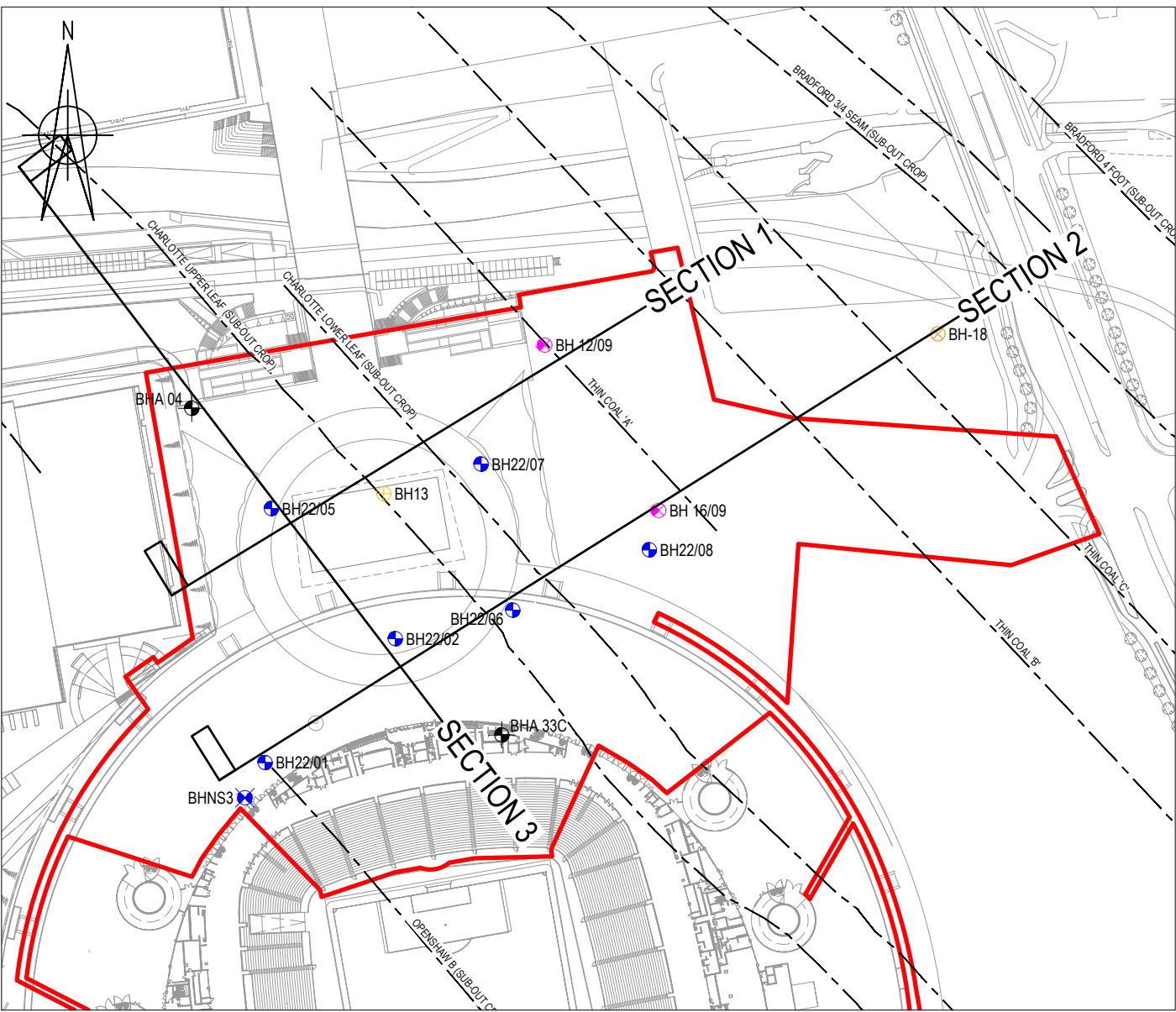
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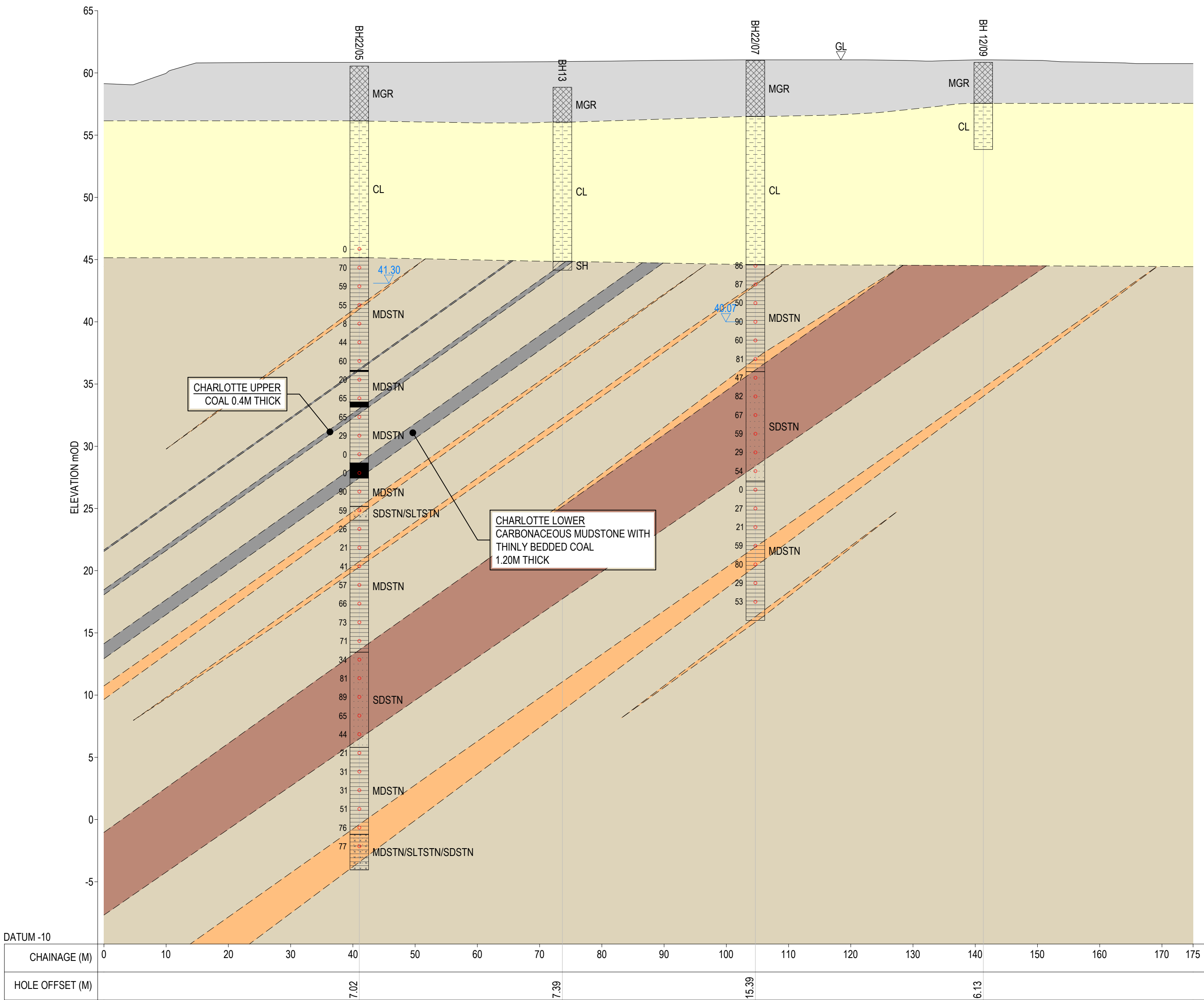
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- BOREHOLE - BURO HAPPOLD 2022
- BOREHOLE - BURO HAPPOLD 2014
- BOREHOLE - MAY GURNEY 2010
- BOREHOLE - NORWEST HOLST 1998
- BOREHOLE - WARDELL ARMSTRONG 1992
- BOREHOLE - NORTHERN FOUNDATIONS 1991

SECTION 1  
SCALES: HORIZ - 1:500 VERT - 1:250



- SITE BOUNDARY
- INDICATIVE SEAM
- POSSIBLE FAULT LOCATION
- GROUND LEVEL FROM TOPOGRAPHICAL SURVEY DATA
- AVERAGE GROUNDWATER LEVEL (mOD)
- MGR MADE GROUND
- CL CLAY
- SD SAND
- SH SHALE
- SLTSTN SILTSTONE
- SDSTN SANDSTONE
- MDSTN MUDSTONE
- AZCL ASSESSED ZONE OF CORE LOSS

INFERRED GEOLOGY

- MADE GROUND
- GLACIAL TILL
- COAL MEASURES
- COAL SEAMS
- SANDSTONE
- SILTSTONE & SANDSTONE
- MUDSTONE/SILTSTONE/SANDSTONE

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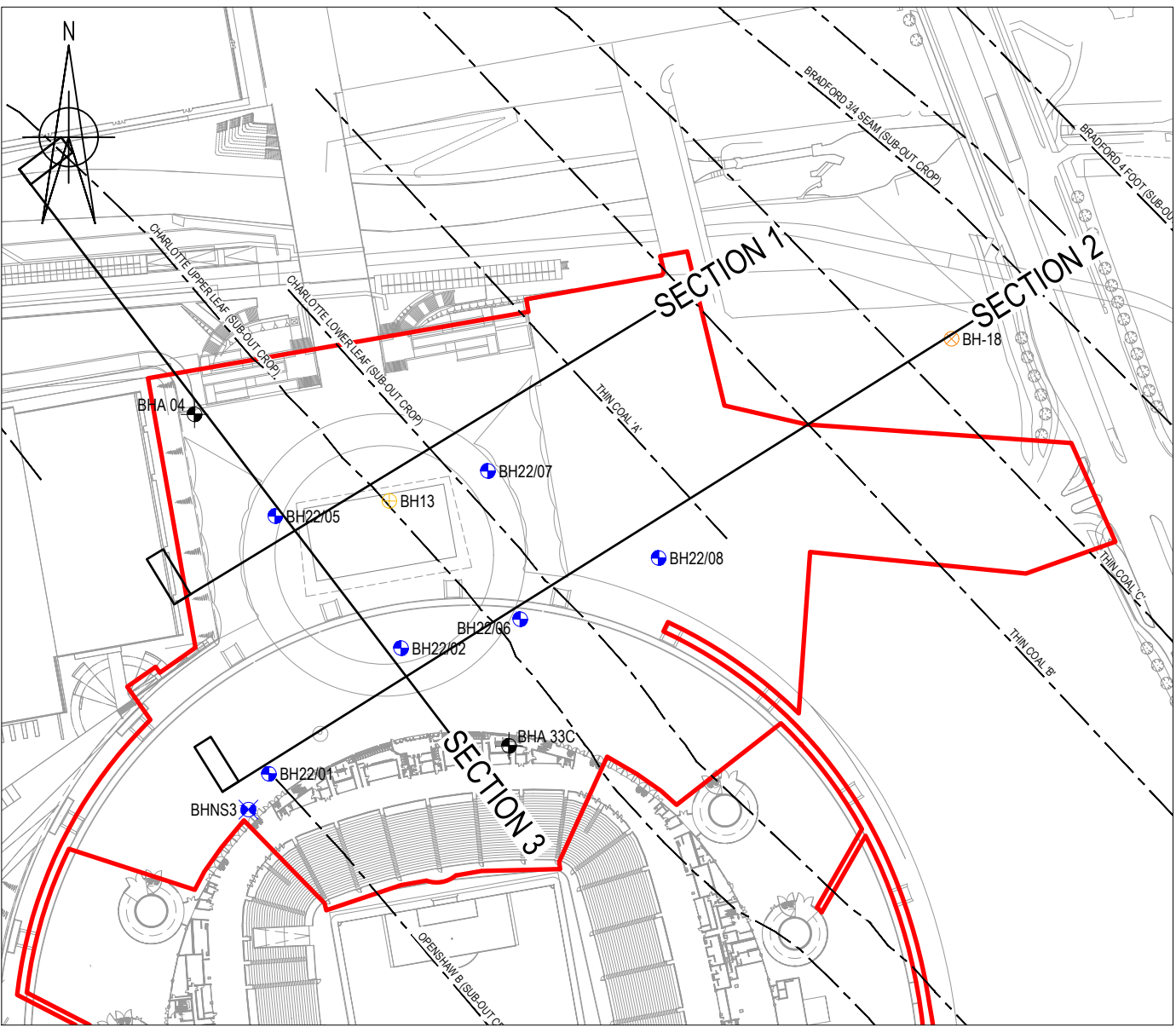
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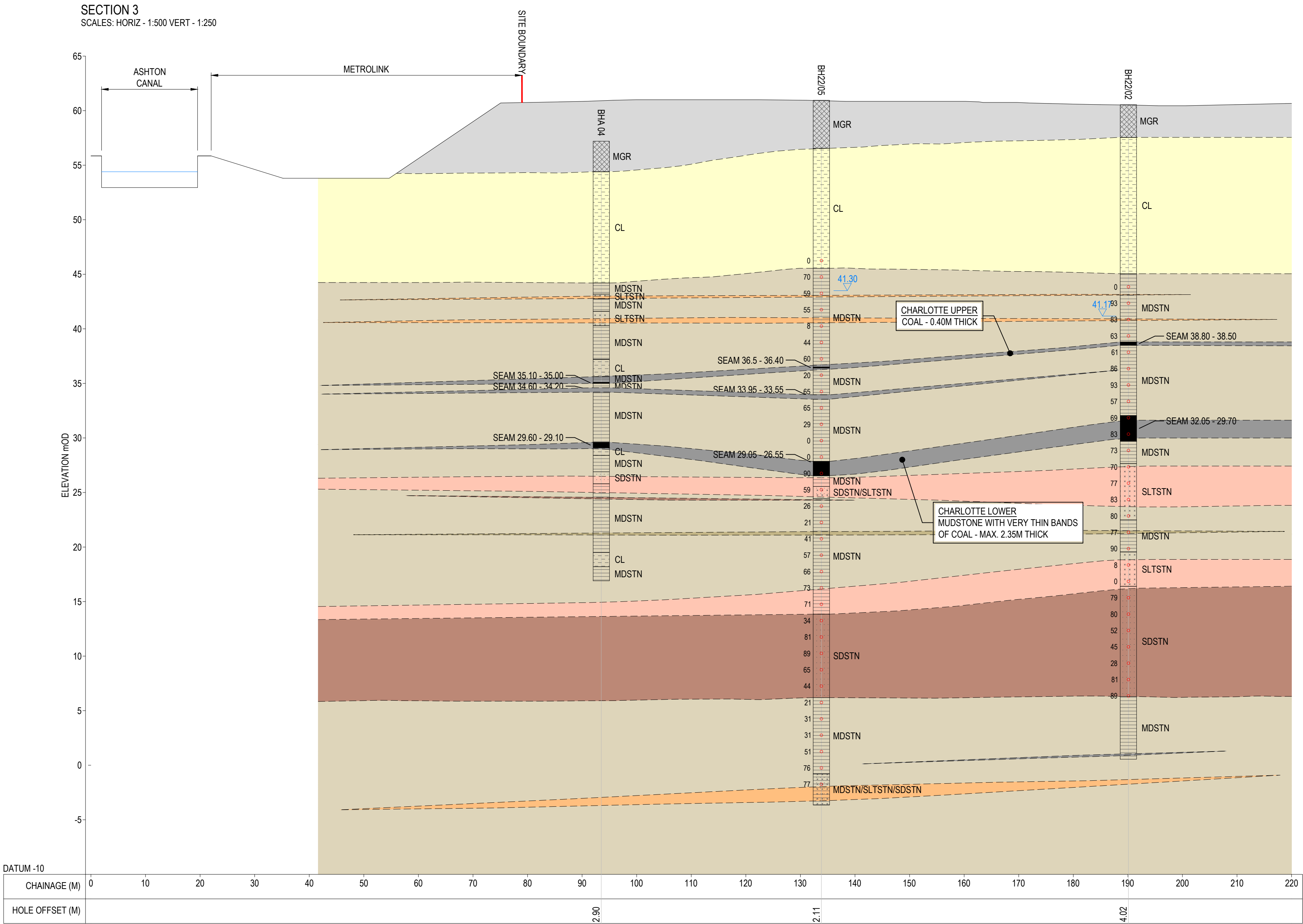
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- BOREHOLE - BURO HAPPOLD 2014
- BOREHOLE - MAY GURNEY 2010
- BOREHOLE - NORWEST HOLST 1998
- BOREHOLE - WARDELL ARMSTRONG 1992

SECTION 3  
SCALES: HORIZ - 1:500 VERT - 1:250



- SITE BOUNDARY
- INDICATIVE SEAM
- POSSIBLE FAULT LOCATION
- GROUND LEVEL FROM TOPOGRAPHICAL SURVEY DATA
- AVERAGE GROUNDWATER LEVEL (mOD)
- MGR MADE GROUND
- CL CLAY
- SD SAND
- SH SHALE
- SLTSTN SILTSTONE
- SDSTN SANDSTONE
- MDSTN MUDSTONE
- AZCL ASSESSED ZONE OF CORE LOSS

INFERRED GEOLOGY

- MADE GROUND
- GLACIAL TILL
- COAL MEASURES
- COAL SEAMS
- SANDSTONE
- SILTSTONE & SANDSTONE
- MUDSTONE/SILTSTONE/SANDSTONE

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## Appendix B Contamination Risk Assessment Criteria

### Introduction

A risk-based approach is used for the assessment of contamination, requiring identification of a contaminant source, a receptor and a realistic pathway via which the contaminant may reach the receptor. The key receptors considered in this assessment are site end-users, construction workers and controlled waters. In order to perform a generic quantitative risk assessment, the soil test results have been compared with available Soil Guideline Values (SGVs), Category 4 Screening Levels (C4SLs), BuroHappold and other industry Generic Assessment Criteria (GAC).

### General Contaminants

Analytical data derived from the investigation has been put into context by comparison with published guidance or derived thresholds values. Current UK guidance published thresholds comprise SGVs and C4SLs, which are available for a limited number of determinands (Reference. 1 to Reference. 9) and land uses. For contaminants without published SGVs or C4SLs or where soil conditions are different to those assumed for the published guideline values (6% soil organic matter content and sandy loam soil), GACs have been derived. The derivation of GACs has been carried out based on published statutory guidance documents (Reference. 10, Reference. 11 and Reference. 12) and with consideration of the most sensitive receptors in the respective CLEA standard land- uses scenarios (the 0 to 6 year old child for the residential with plant uptake (Resi<sub>1</sub>) and residential without plant uptake (Resi<sub>2</sub>) scenarios and the adult for the commercial/ industrial land-use scenario) using the software model "CLEA 1.06" and "CLEA 1.071" and associated handbook (Reference. 13, Reference. 14 and Reference. 15). Contaminant specific model input values have been selected as prescribed by the Environment Agency SGV reports (Reference. 1 to Reference. 7). In the absence of SGV reports, contaminant specific input values have been selected as suggested by SC050021/SR7 (Reference. 16) and / or the LQM reports (Reference. 17 and Reference. 18) and/or the EIC/AGS report (Reference. 19).

### Lead

Assessment criteria for Lead have been adopted as derived and detailed in the C4SL documents (Reference. 8).

### Mercury

Assessment criteria for mercury is based on the published threshold SGV (Reference. 7) and the S4UL (Reference. 18), these have been produced for elemental, inorganic and methyl mercury. Inorganic mercury is the most common form of mercury in the environment. It is recommended by the Environment Agency that elemental and methyl mercury are used as thresholds where the Desk Study has identified a potential source otherwise inorganic mercury should be used. Concentrations of elemental mercury will also be considered where concentrations are notably higher than 'natural' background concentrations (e.g. 20mg/kg).

### Nickel

Following the report by the European Food Safety Authority (EFSA) in February 2015 (Reference. 21) the Environment Agency withdrew the Soil Guideline Value (SGV) for nickel and its supporting reports. The Environment Agency have no plans to update the documents or produce any new SGV reports. Following the publication of the EFSA report, LQM advised that the TDI for oral pathways proposed by EFSA was more appropriate than the value previously used. Accordingly LQM issued a revised S4UL value for nickel which has been adopted here.

## Chromium

Assessment criteria for chromium is based on the published threshold LQM value (Reference. 17 and Reference. 18) and have been produced for chromium III (trivalent) and chromium VI (hexavalent). Chromium III is the most common form of chromium in the environment, chromium VI is produced by the oxidation of chromium III through industrial processes. Therefore chromium VI should only be assessed where the Desk Study has identified a potential source otherwise chromium III should be used.

## Statistical Analysis

Where individual concentrations of contaminants have been found exceeding assessment criteria, the data of the specific contaminant was analysed statistically in line with the 'Guidance on Comparing Soil Contaminant Data with Critical Concentrations' (Reference. 20). Where the distribution of data for particular determinands showed evidence of non-normality, the 95% upper confidence limits (US95) were calculated using the Chebychev Theorem in accordance with this guidance (Reference. 20).

**Appendix References**

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- Reference. 2. Environment Agency. 2009. Soil Guideline Values for selenium in soil - Science Report SC050021 / Selenium SGV. Bristol: Environment Agency
- Reference. 3. Environment Agency. 2009. Soil Guideline Values for inorganic arsenic in soil - Science Report SC050021/ arsenic SGV. Bristol: Environment Agency
- Reference. 4. Environment Agency. 2009. Soil Guideline Values for xylene in soil - Science Report SC050021 / xylene SGV. Bristol: Environment Agency
- Reference. 5. Environment Agency. 2009. Soil Guideline Values for benzene in soil - Science Report SC050021 / benzene SGV. Bristol: Environment Agency
- Reference. 6. Environment Agency. 2009. Soil Guideline Values for ethylbenzene in soil - Project SC050021 / ethylbenzene SGV. Bristol: Environment Agency
- Reference. 7. Environment Agency. 2009. Soil Guideline Values for mercury in soil - Science Report SC050021 / Mercury SGV. Bristol: Environment Agency
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- Reference. 12. Environment Agency. 2009. Human health toxicological assessment of contaminants in soil. Science Report – SC050021/SR2, January 2009
- Reference. 13. Environment Agency 2009. CLEA Software (Version 1.06), Retrieved from the internet: <http://www.environment-agency.gov.uk/research/planning/40397.aspx>.
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- Reference. 15. Environment Agency. 2009. CLEA Software (Version 1.05) Handbook. Science Report – SC050021/SR4, January 2009
- Reference. 16. Environment Agency. 2008. Science report SC050021/SR7 - Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values. Bristol: Environment Agency.
- Reference. 17. LQM/CIEH. 2009. Generic Assessment Criteria for Human Health Risk Assessment – 2nd edition. Land Quality Press. Nottingham.
- Reference. 18. LQM/CIEH. 2015. The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham.
- Reference. 19. Environmental Industries Commission (EIC), The Association of Geotechnical and Geoenvironmental Specialists (AGS) and Contaminated Land: Applications in Real Environments (CL:AIRE), Soil Generic Assessment Criteria for Human Health Risk Assessment, January 2010.

- Reference. 20. CI:AIRE and CIEH. 2008. Guidance on Comparing Soil Contaminant Data with Critical Concentrations.
- Reference. 21. European Food Safety Authority (EFSA). Scientific Opinion on the risks to public health related to the presence of nickel in food and drinking water. EFSA Journal 2015;13(2):4002

# Appendix C Soil Data

Asbestos

|                         |             |                      |                            |                     |
|-------------------------|-------------|----------------------|----------------------------|---------------------|
| Asbestos Screen         | No. Samples | No. samples detected | No. samples ND             | % of samples detect |
|                         | 59          | 9                    | 50                         | 15.25               |
| Asbestos Quantification | No. Quants  | No. samples <0.001%  | No. samples >0.001% <0.01% | No. samples >0.01%  |
|                         | 9           | 3                    | 4                          | 2                   |

Human Health

Soil Organic Matter 1%  
N/A = no screening criteria available

|                              |       | Residential with Uptake | Residential without Uptake | Commercial |
|------------------------------|-------|-------------------------|----------------------------|------------|
| Cyanide                      | mg/kg | 4.6                     | 760                        | 16000      |
| Free Cyanide                 | mg/kg | 4.6                     | 760                        | 16000      |
| Arsenic                      | mg/kg | 37                      | 40                         | 640        |
| Boron                        | mg/kg | 290                     | 11000                      | 240000     |
| Cadmium                      | mg/kg | 26                      | 149                        | 410        |
| Chromium                     | mg/kg | 910                     | 910                        | 8600       |
| Chromium VI                  | mg/kg | 21                      | 21                         | 49         |
| Copper                       | mg/kg | 2400                    | 7100                       | 68000      |
| Lead                         | mg/kg | 200                     | 310                        | 2330       |
| Mercury (inorganic)          | mg/kg | 40                      | 56                         | 58         |
| Nickel                       | mg/kg | 130                     | 180                        | 980        |
| Zinc                         | mg/kg | 3700                    | 40000                      | 730000     |
| TPH                          | mg/kg | 490                     | 490                        | 38000      |
| Benzene                      | mg/kg | 0.087                   | 0.38                       | 27         |
| Toluene                      | mg/kg | 130                     | 869                        | 869        |
| Ethyl Benzene                | mg/kg | 47                      | 83                         | 518        |
| m/p Xylenes                  | mg/kg | 56                      | 79                         | 576        |
| o Xylenes                    | mg/kg | 60                      | 88                         | 478        |
| MTBE                         | mg/kg | N/A                     | N/A                        | N/A        |
| Naphthalene                  | mg/kg | 2.3                     | 2.3                        | 190        |
| Acenaphthylene               | mg/kg | 170                     | 2900                       | 83000      |
| Acenaphthene                 | mg/kg | 210                     | 3000                       | 84000      |
| Fluorene                     | mg/kg | 170                     | 2800                       | 63000      |
| Phenanthrene                 | mg/kg | 95                      | 1300                       | 22000      |
| Anthracene                   | mg/kg | 2400                    | 31000                      | 520000     |
| Fluoranthene                 | mg/kg | 280                     | 1500                       | 23000      |
| Pyrene                       | mg/kg | 620                     | 3700                       | 54000      |
| Benzo[a]anthracene           | mg/kg | 7.2                     | 11                         | 170        |
| Chrysene                     | mg/kg | 15                      | 30                         | 350        |
| Benzo[b]fluoranthene         | mg/kg | 2.6                     | 3.9                        | 44         |
| Benzo[k]fluoranthene         | mg/kg | 77                      | 110                        | 1200       |
| Benzo[a]pyrene               | mg/kg | 2.2                     | 3.2                        | 35         |
| Indeno[123-cd]pyrene         | mg/kg | 27                      | 45                         | 500        |
| Dibenzo[ah]anthracene        | mg/kg | 0.24                    | 0.31                       | 3.5        |
| Benzo[ghi]perylene           | mg/kg | 320                     | 360                        | 3900       |
| Total USEPA 16 PAHs          | mg/kg | N/A                     | N/A                        | N/A        |
| Aliphatic C5 - C6            | mg/kg | 42                      | 42                         | 3200       |
| Aliphatic C6 - C8            | mg/kg | 100                     | 100                        | 7800       |
| Aliphatic C8 - C10           | mg/kg | 27                      | 27                         | 2000       |
| Aliphatic C10 - C12          | mg/kg | 130                     | 130                        | 9700       |
| Aliphatic C12 - C16          | mg/kg | 1100                    | 1100                       | 59000      |
| Aliphatic C16 - C21          | mg/kg | 65000                   | 65000                      | 1600000    |
| Aliphatic C21 - C35          | mg/kg | 65000                   | 64000                      | 1600000    |
| Aromatic C5 - C7             | mg/kg | 70                      | 370                        | 26000      |
| Aromatic C7 - 8              | mg/kg | 130                     | 860                        | 56000      |
| Aromatic C8 - C10            | mg/kg | 34                      | 47                         | 3500       |
| Aromatic C10 - 12            | mg/kg | 74                      | 250                        | 16000      |
| Aromatic C12 - C16           | mg/kg | 140                     | 1800                       | 36000      |
| Aromatic C16 - C21           | mg/kg | 260                     | 1900                       | 28000      |
| Aromatic C21 - C35           | mg/kg | 1100                    | 1900                       | 28000      |
| Total Aliphatic and Aromatic | mg/kg | 490                     | 490                        | 38000      |

No. samples exceeding

| Residential with Uptake | Residential without Uptake | Commercial |
|-------------------------|----------------------------|------------|
| 1                       |                            |            |
| 3                       | 3                          |            |
| 7                       | 5                          |            |
| 1                       |                            |            |
| 14                      | 14                         |            |
| 1                       | 1                          | 1          |
| 15                      | 15                         |            |
| 12                      | 6                          |            |
| 32                      | 26                         |            |
| 33                      | 27                         |            |
| 37                      | 29                         |            |
| 6                       | 6                          |            |

| No Tests | No <LOD | Min   | Max     | Location of Maximum    |
|----------|---------|-------|---------|------------------------|
| 59       | 51      | 1.20  | 5.20    | BH22/03 2.5mbgl        |
| 58       | 58      |       |         |                        |
| 59       | 1       | 1.30  | 96.00   | (WS)TP22/01 1.80mbgl   |
| 59       | 1       | 0.30  | 4.90    | TP22/06 1.30-1.50mbgl  |
| 59       | 9       | 0.20  | 12.00   | TP22/02 1.00-1.10mbgl  |
| 59       |         | 4.00  | 120.00  | (WS)TP22/01 1.80mbgl   |
| 12       | 12      |       |         |                        |
| 59       |         | 4.70  | 610.00  | BH22/04 3.20-3.40mbgl  |
| 59       |         | 3.90  | 480.00  | TP22/02 1.00-1.10mbgl  |
| 59       | 57      | 0.30  | 0.30    | TP22/03 2.00-2.25mbgl  |
| 59       |         | 1.30  | 56.00   | BH22/04 3.20-3.40mbgl  |
| 59       |         | 11.00 | 3800.00 | BH22/04 3.20-3.40mbgl  |
| 56       | 3       | 17.00 | 1700.00 | BH22/01 3.50mbgl       |
| 22       | 21      | 52.00 | 52.00   | BH22/08 1.50mbgl       |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 59       | 10      | 0.10  | 13.00   | TP22/07 1.00-1.20mbgl  |
| 59       | 22      | 0.06  | 2.00    | TP22/07 1.00-1.20mbgl  |
| 59       | 4       | 0.09  | 8.10    | TP22/07 1.00-1.20mbgl  |
| 59       | 5       | 0.07  | 7.80    | CPT22/01 1.00mbgl      |
| 59       | 3       | 0.22  | 37.00   | CPT22/01 1.00mbgl      |
| 59       | 3       | 0.05  | 12.00   | CPT22/01 1.00mbgl      |
| 59       |         | 0.10  | 35.00   | BH22/06A 1.5mbgl       |
| 59       |         | 0.13  | 37.00   | CPT22/01 1.00mbgl      |
| 59       | 3       | 0.14  | 18.00   | CPT22/01 1.00mbgl      |
| 59       | 3       | 0.15  | 15.00   | CPT22/01 1.00mbgl      |
| 59       | 3       | 0.15  | 19.00   | BH22/04 3.20-3.40mbgl  |
| 59       | 3       | 0.07  | 7.60    | BH22/06A 3.70-3.90mbgl |
| 59       | 3       | 0.16  | 15.00   | BH22/04 3.20-3.40mbgl  |
| 59       | 4       | 0.06  | 7.40    | BH22/04 3.20-3.40mbgl  |
| 59       | 13      | 0.07  | 1.80    | BH22/04 3.20-3.40mbgl  |
| 59       | 4       | 0.10  | 7.70    | BH22/04 3.20-3.40mbgl  |
| 59       | 3       | 1.79  | 233.00  | CPT22/01 1.00mbgl      |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 22       | 16      | 1.20  | 3.70    | BH22/07 1.50mbgl       |
| 22       | 6       | 2.10  | 27.00   | TP22/02 1.00-1.10mbgl  |
| 22       | 8       | 12.00 | 150.00  | TP22/02 1.00-1.10mbgl  |
| 22       | 4       | 21.00 | 440.00  | BH22/01 3.50mbgl       |
| 22       | 21      | 0.05  | 0.05    | BH22/08 1.50mbgl       |
| 22       | 22      |       |         |                        |
| 22       | 22      |       |         |                        |
| 22       | 10      | 1.10  | 7.90    | BH22/07 1.50mbgl       |
| 22       | 6       | 4.20  | 55.00   | BH22/07 1.50mbgl       |
| 22       | 5       | 16.00 | 160.00  | BH22/07 1.50mbgl       |
| 22       | 3       | 16.00 | 530.00  | BH22/01 3.50mbgl       |
| 22       | 1       | 20.00 | 1700.00 | BH22/01 3.50mbgl       |

Select Chemical      Arsenic

Confidence Limit for Outliers      0.05

Outer Confidence Limit for Mean      90

Inner Confidence Limit for Mean      80

| Statistics                    |     |
|-------------------------------|-----|
| Total Tests                   | 59  |
| Number below detection limits | 1   |
| % below detection limits      | 1.7 |

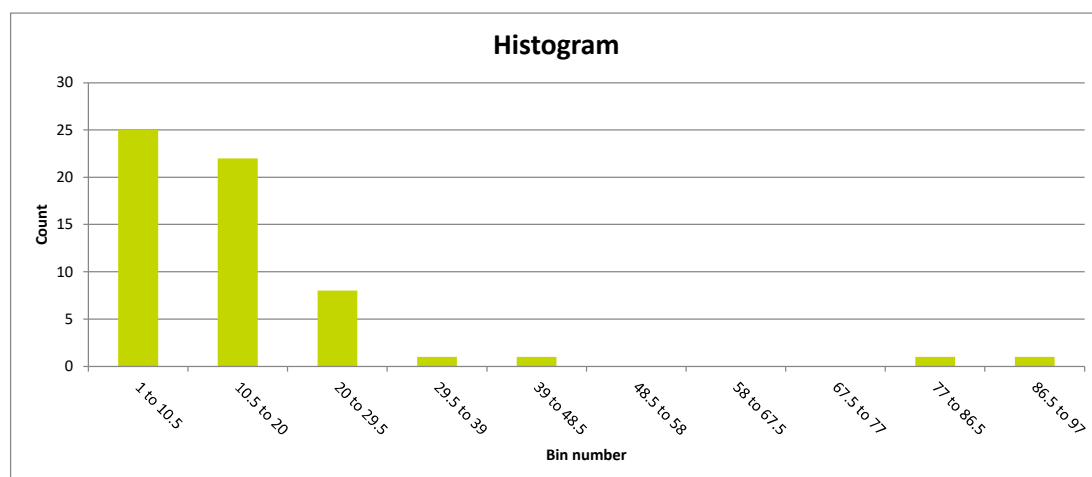
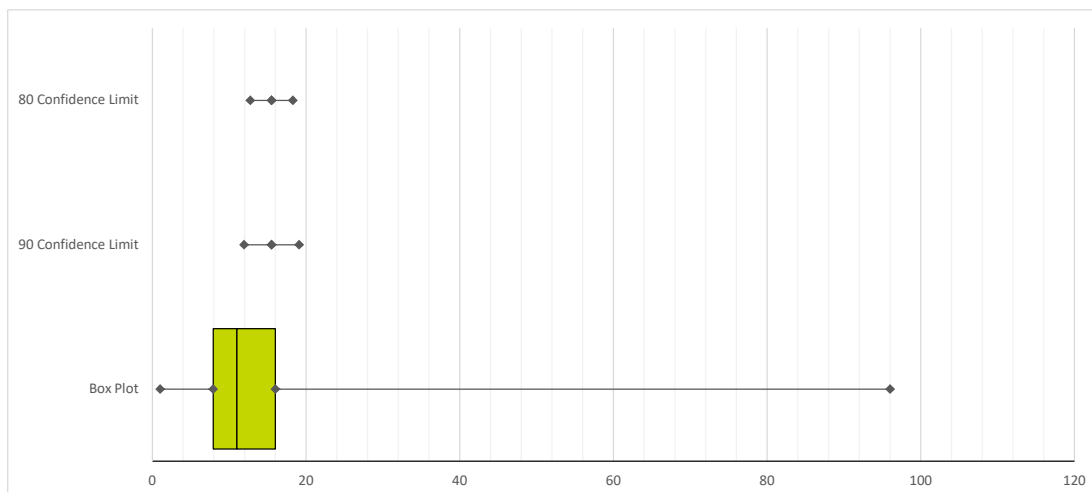
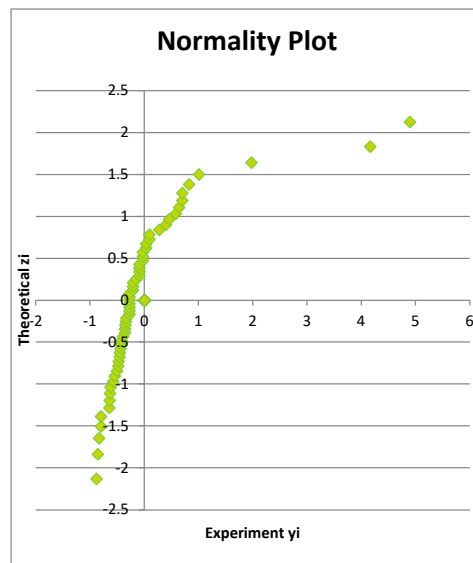
| Box Plots       |       |
|-----------------|-------|
| Arithmetic Mean | 15.50 |
| Median          | 11.00 |
| Lower Quartile  | 7.90  |
| Upper Quartile  | 16.00 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 19.08 | 11.92 |
| 80%                    | 18.27 | 12.72 |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?

Select test type Chebychev Theorem



|                                 |      |
|---------------------------------|------|
| Select Chemical                 | Lead |
| Confidence Limit for Outliers   | 0.05 |
| Outer Confidence Limit for Mean | 90   |
| Inner Confidence Limit for Mean | 80   |

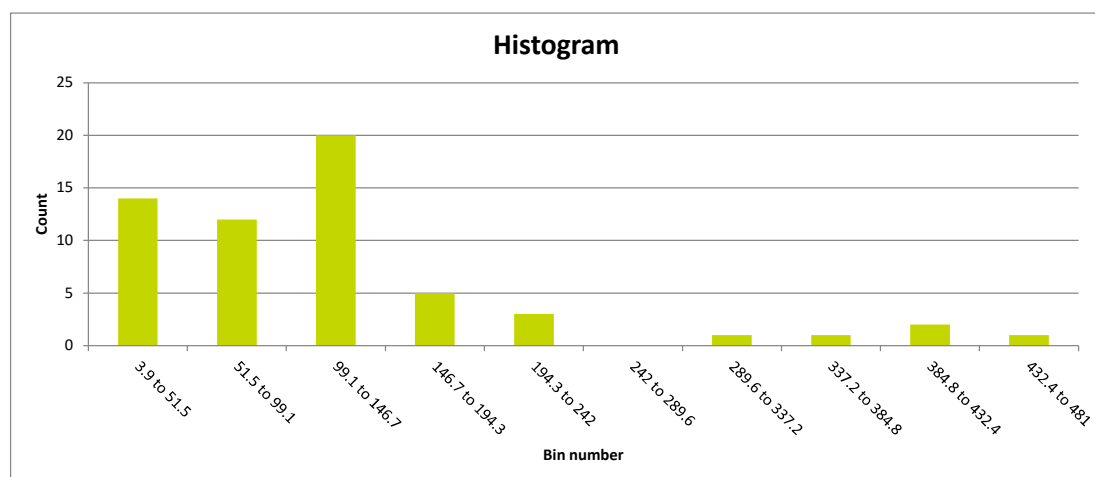
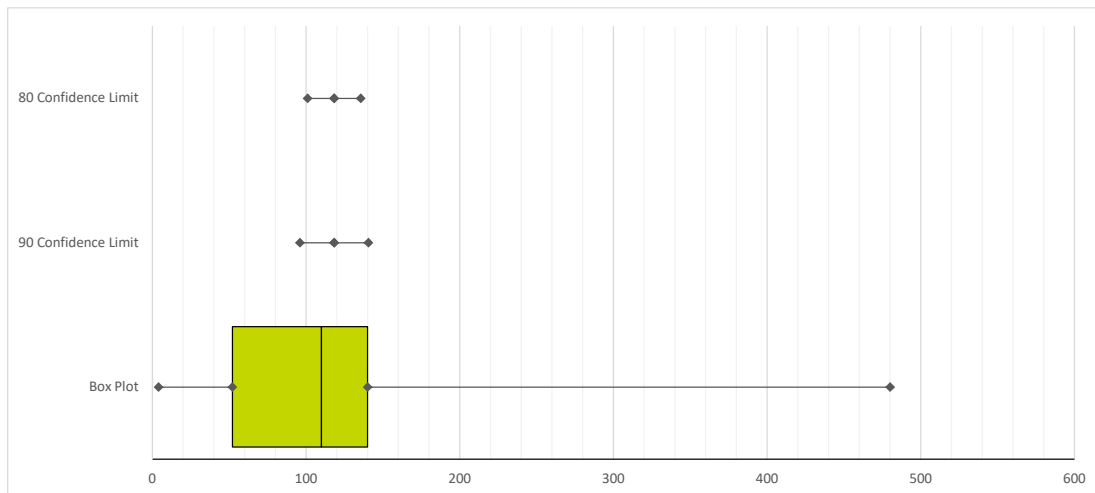
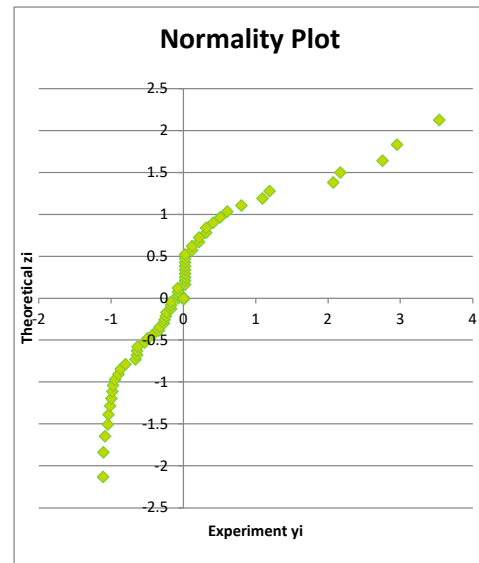
| Statistics                    |     |
|-------------------------------|-----|
| Total Tests                   | 59  |
| Number below detection limits | 0   |
| % below detection limits      | 0.0 |

| Box Plots       |        |
|-----------------|--------|
| Arithmetic Mean | 118.17 |
| Median          | 110.00 |
| Lower Quartile  | 52.00  |
| Upper Quartile  | 140.00 |

| Mean Confidence Limits | Upper  | Lower  |
|------------------------|--------|--------|
| 90%                    | 140.45 | 95.89  |
| 80%                    | 135.45 | 100.89 |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
Select test type Chebychev Theorem



Select Chemical Benzene  
 Confidence Limit for Outliers 0.05  
 Outer Confidence Limit for Mean 90  
 Inner Confidence Limit for Mean 80

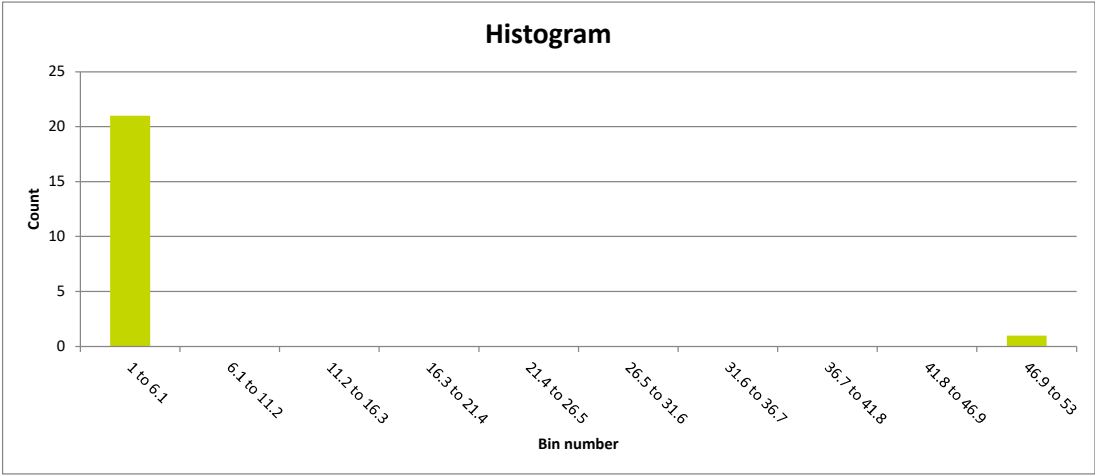
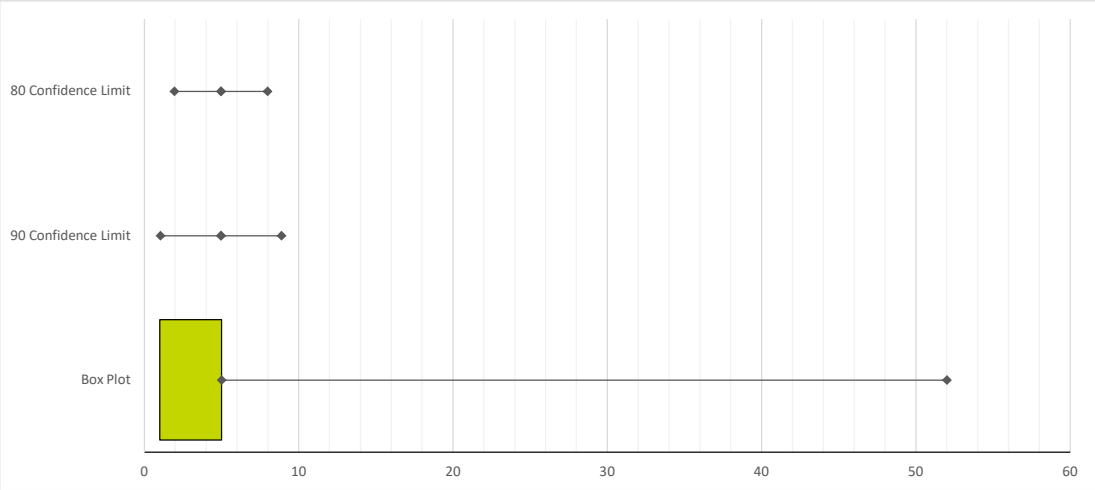
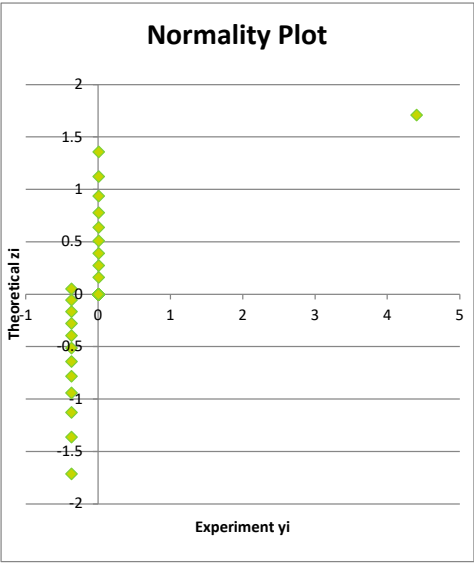
| Statistics                    |      |
|-------------------------------|------|
| Total Tests                   | 22   |
| Number below detection limits | 21   |
| % below detection limits      | 95.5 |

| Box Plots       |      |
|-----------------|------|
| Arithmetic Mean | 4.95 |
| Median          | 1.00 |
| Lower Quartile  | 1.00 |
| Upper Quartile  | 5.00 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 8.88  | 1.03  |
| 80%                    | 7.97  | 1.94  |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
 Select test type Chebychev Theorem



Select Chemical Naphthalene  
 Confidence Limit for Outliers 0.05  
 Outer Confidence Limit for Mean 90  
 Inner Confidence Limit for Mean 80

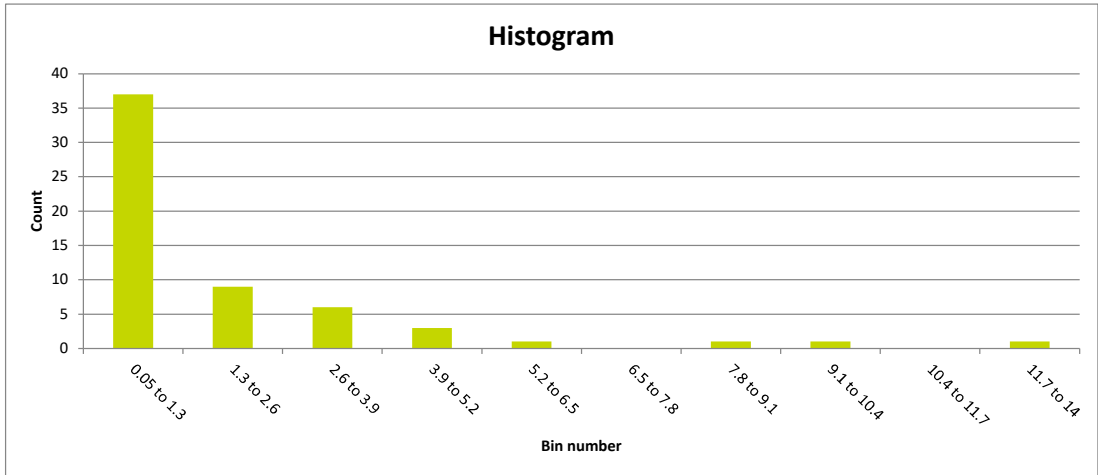
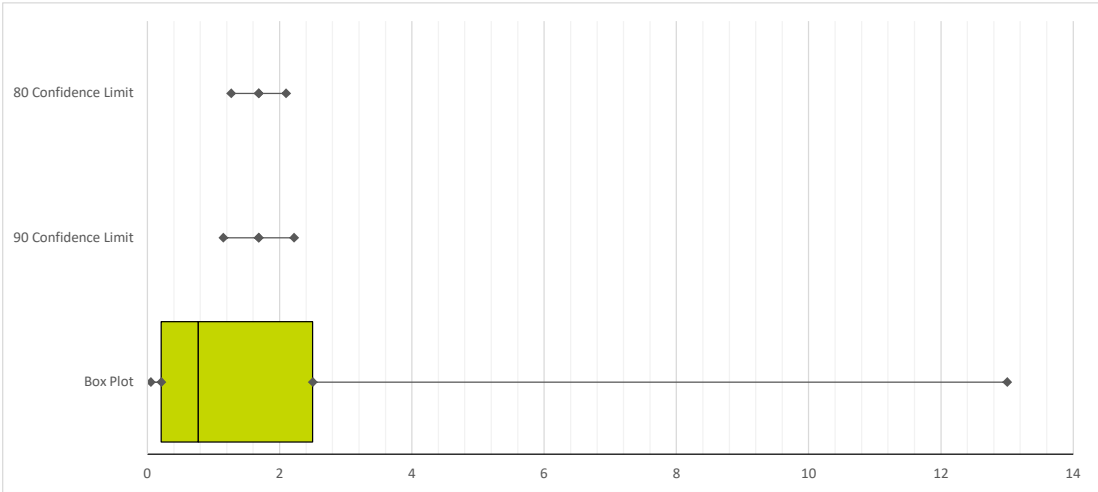
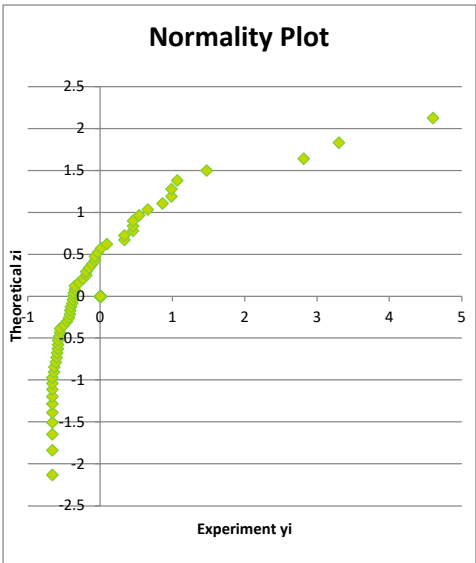
| Statistics                    |      |
|-------------------------------|------|
| Total Tests                   | 59   |
| Number below detection limits | 10   |
| % below detection limits      | 16.9 |

| Box Plots       |      |
|-----------------|------|
| Arithmetic Mean | 1.68 |
| Median          | 0.77 |
| Lower Quartile  | 0.21 |
| Upper Quartile  | 2.50 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 2.22  | 1.15  |
| 80%                    | 2.10  | 1.27  |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
 Select test type Chebychev Theorem



Select Chemical Benzo[a]anthracene  
 Confidence Limit for Outliers 0.05  
 Outer Confidence Limit for Mean 90  
 Inner Confidence Limit for Mean 80

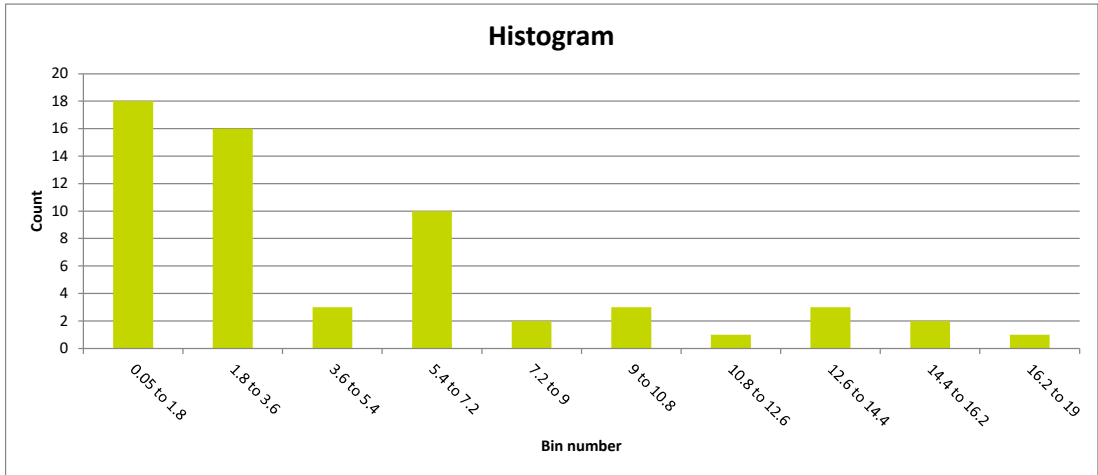
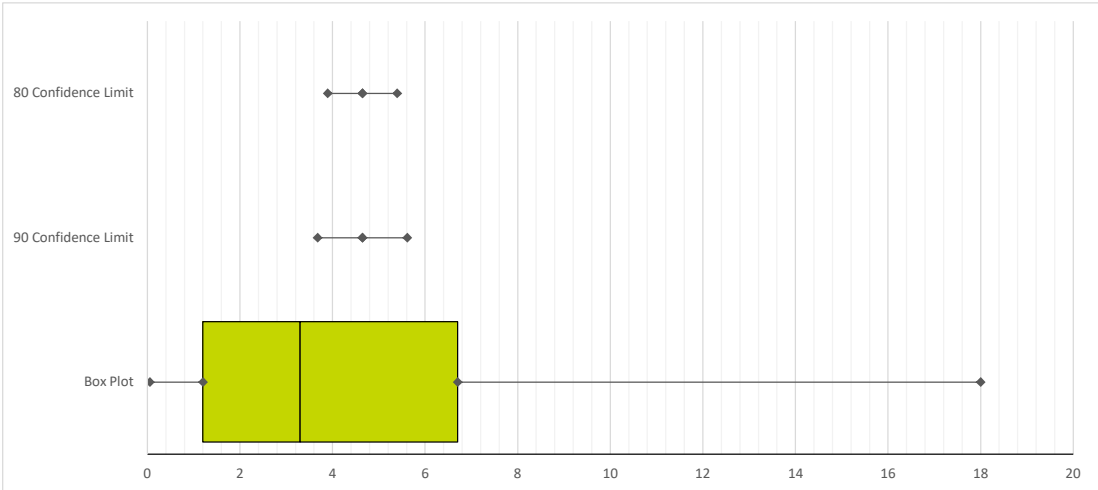
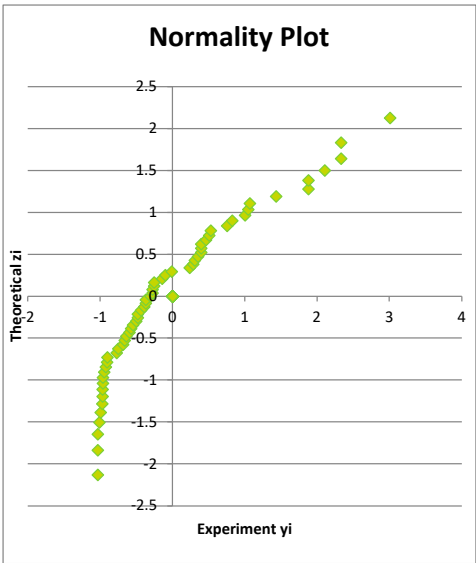
| Statistics                    |     |
|-------------------------------|-----|
| Total Tests                   | 59  |
| Number below detection limits | 3   |
| % below detection limits      | 5.1 |

| Box Plots       |      |
|-----------------|------|
| Arithmetic Mean | 4.64 |
| Median          | 3.30 |
| Lower Quartile  | 1.20 |
| Upper Quartile  | 6.70 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 5.61  | 3.68  |
| 80%                    | 5.39  | 3.89  |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
 Select test type Chebychev Theorem



Select Chemical Benzo[b]fluoranthene  
 Confidence Limit for Outliers 0.05  
 Outer Confidence Limit for Mean 90  
 Inner Confidence Limit for Mean 80

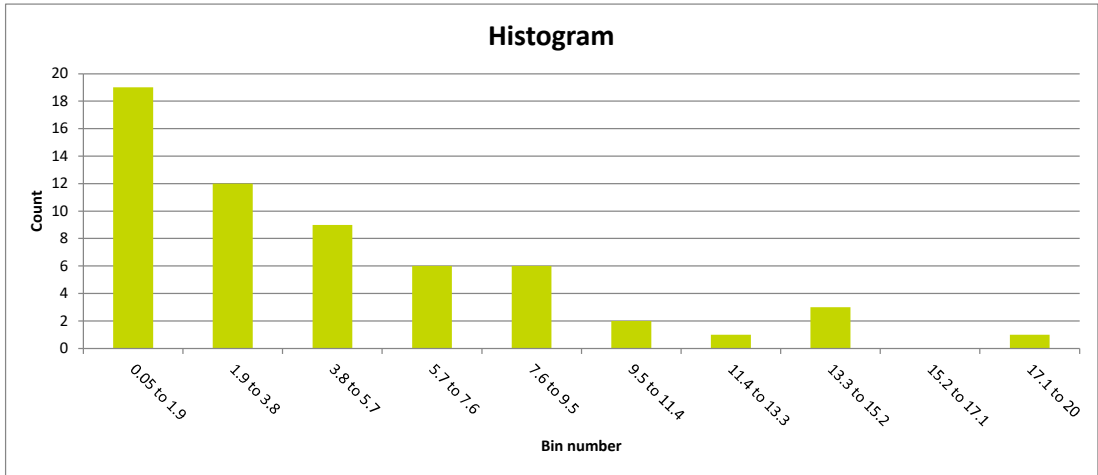
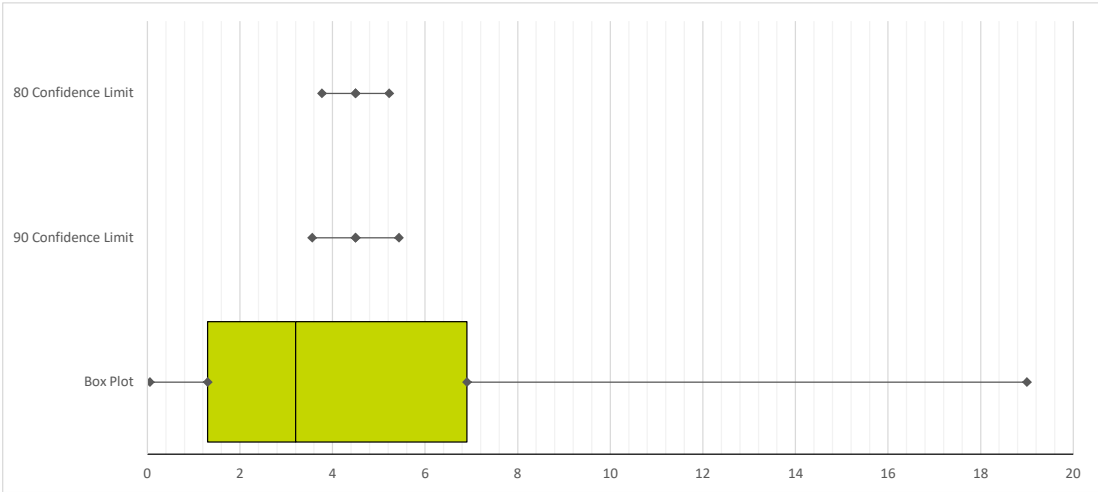
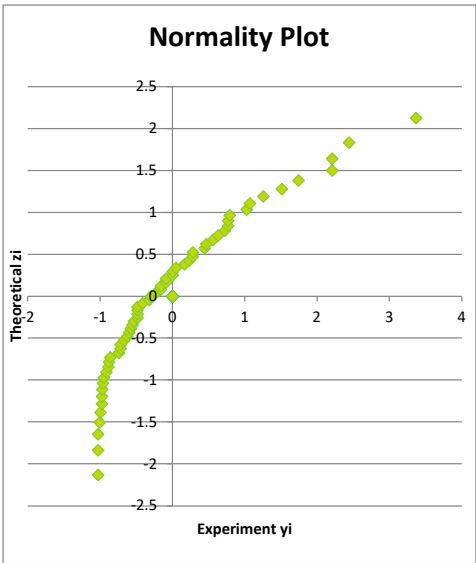
Is data normally distributed?  
 Select test type Chebychev Theorem

| Statistics                    |     |
|-------------------------------|-----|
| Total Tests                   | 59  |
| Number below detection limits | 3   |
| % below detection limits      | 5.1 |

| Box Plots       |      |
|-----------------|------|
| Arithmetic Mean | 4.50 |
| Median          | 3.20 |
| Lower Quartile  | 1.30 |
| Upper Quartile  | 6.90 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 5.43  | 3.56  |
| 80%                    | 5.22  | 3.77  |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |



Select Chemical Dibenzo[ah]anthracene  
 Confidence Limit for Outliers 0.05  
 Outer Confidence Limit for Mean 90  
 Inner Confidence Limit for Mean 80

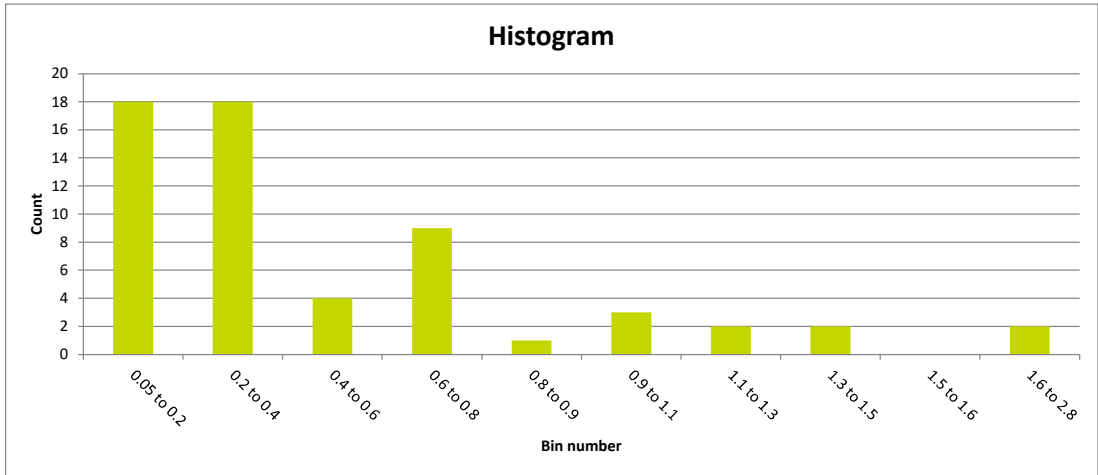
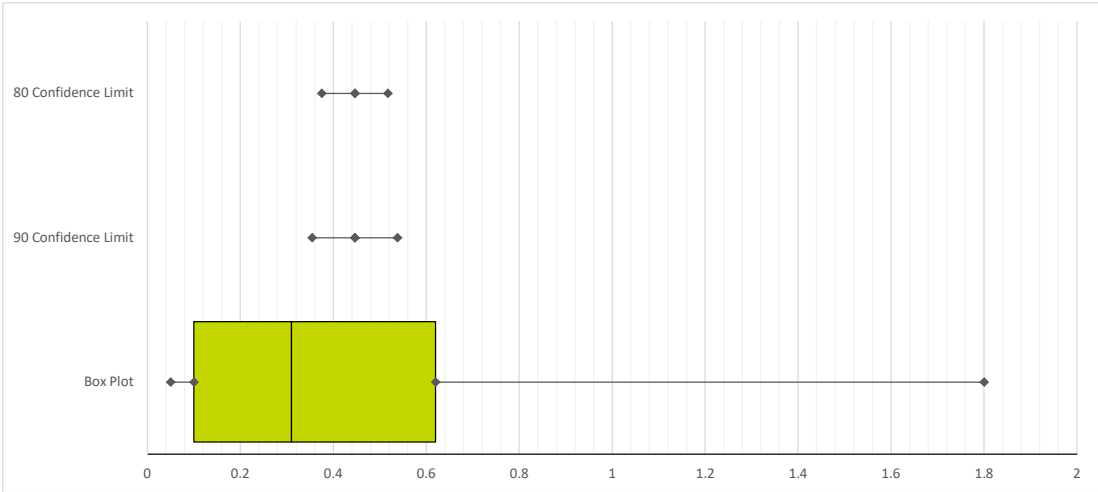
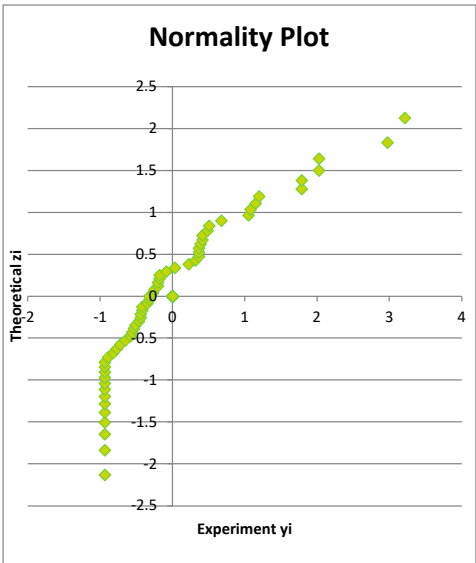
| Statistics                    |      |
|-------------------------------|------|
| Total Tests                   | 59   |
| Number below detection limits | 13   |
| % below detection limits      | 22.0 |

| Box Plots       |      |
|-----------------|------|
| Arithmetic Mean | 0.45 |
| Median          | 0.31 |
| Lower Quartile  | 0.10 |
| Upper Quartile  | 0.62 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 0.54  | 0.35  |
| 80%                    | 0.52  | 0.37  |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
 Select test type Chebychev Theorem



Select Chemical Benzo[a]pyrene  
 Confidence Limit for Outliers 0.05  
 Outer Confidence Limit for Mean 90  
 Inner Confidence Limit for Mean 80

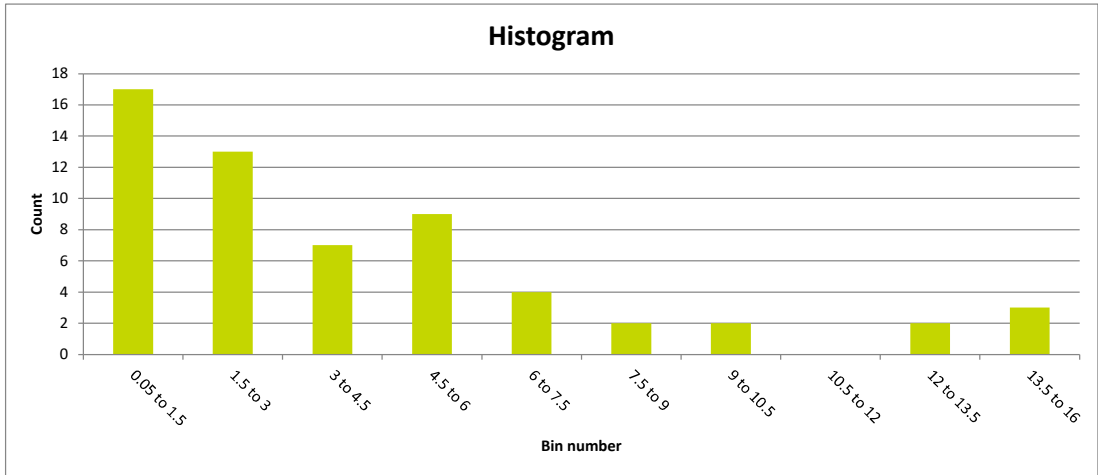
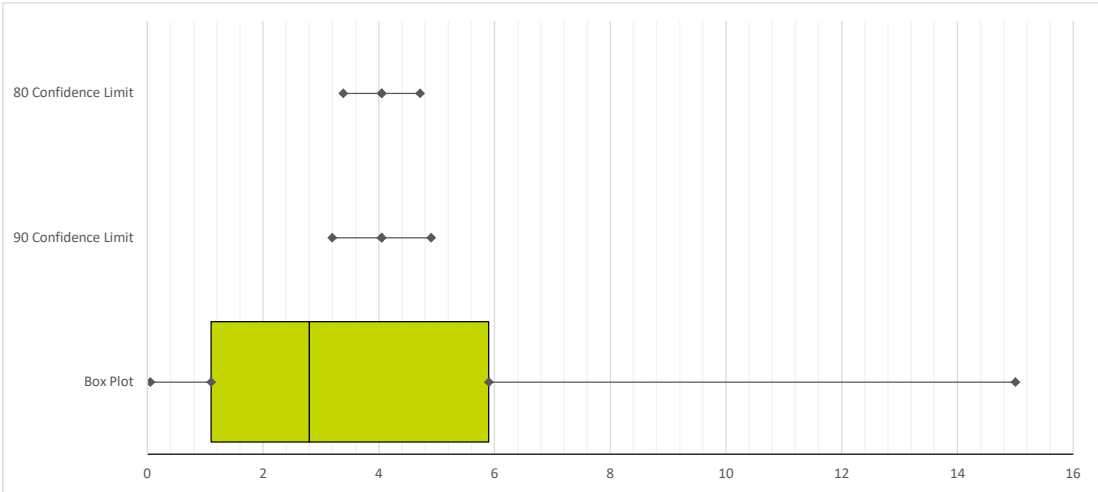
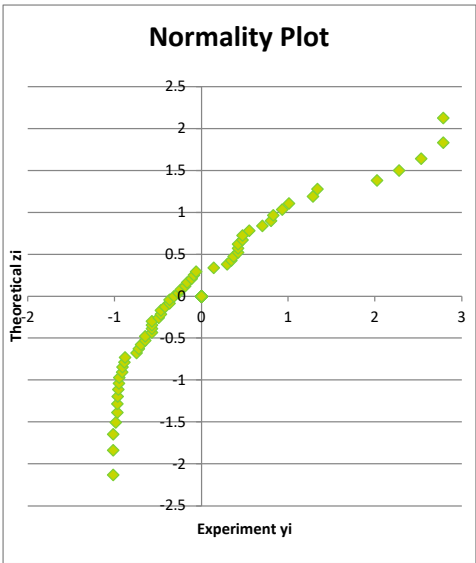
| Statistics                    |     |
|-------------------------------|-----|
| Total Tests                   | 59  |
| Number below detection limits | 3   |
| % below detection limits      | 5.1 |

| Box Plots       |      |
|-----------------|------|
| Arithmetic Mean | 4.05 |
| Median          | 2.80 |
| Lower Quartile  | 1.10 |
| Upper Quartile  | 5.90 |

| Mean Confidence Limits | Upper | Lower |
|------------------------|-------|-------|
| 90%                    | 4.90  | 3.19  |
| 80%                    | 4.71  | 3.38  |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
 Select test type Chebychev Theorem



|                                 |      |
|---------------------------------|------|
| Select Chemical                 | TPH  |
| Confidence Limit for Outliers   | 0.05 |
| Outer Confidence Limit for Mean | 90   |
| Inner Confidence Limit for Mean | 80   |

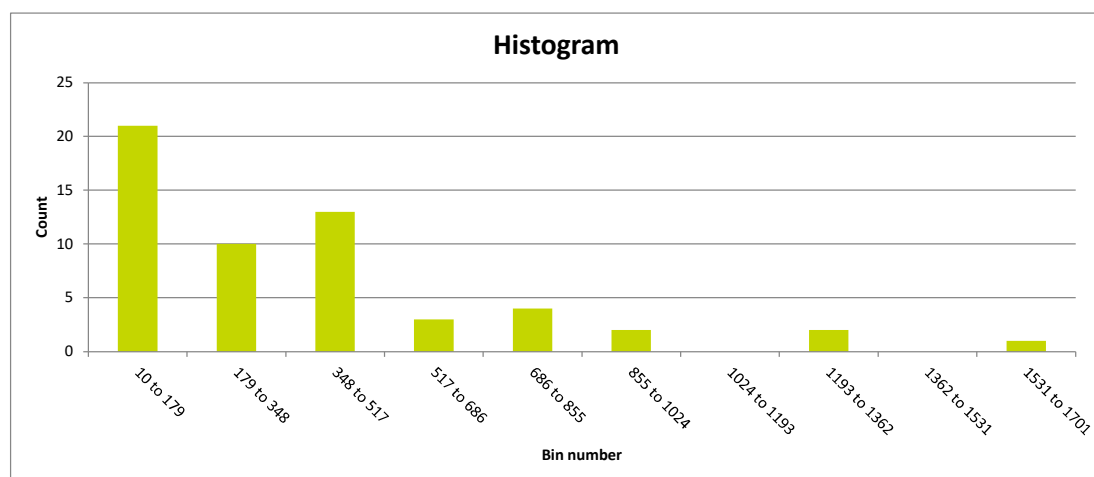
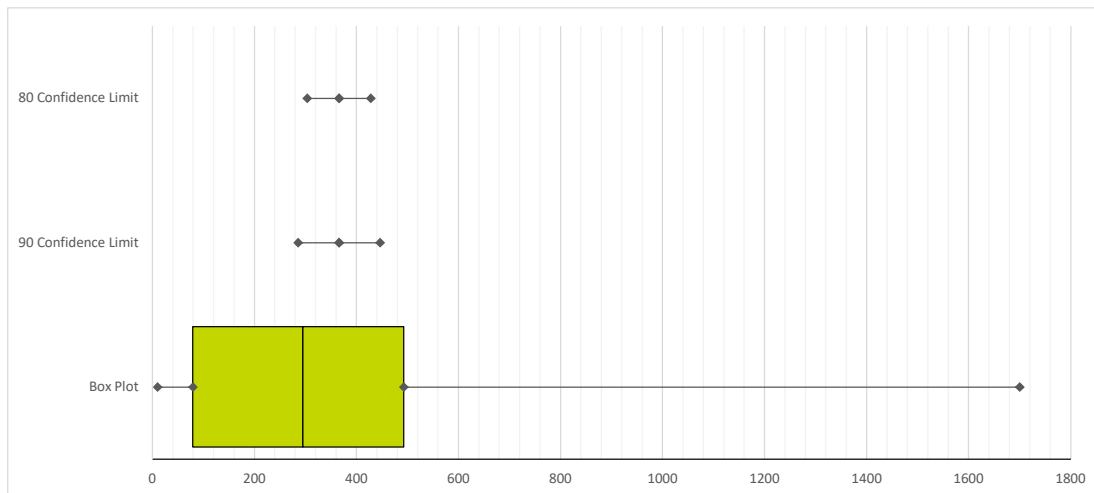
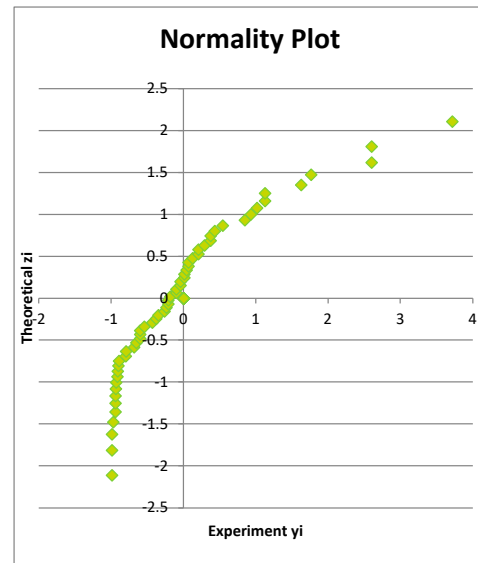
| Statistics                    |     |
|-------------------------------|-----|
| Total Tests                   | 56  |
| Number below detection limits | 3   |
| % below detection limits      | 5.4 |

| Box Plots       |        |
|-----------------|--------|
| Arithmetic Mean | 365.71 |
| Median          | 295.00 |
| Lower Quartile  | 79.25  |
| Upper Quartile  | 492.50 |

| Mean Confidence Limits | Upper  | Lower  |
|------------------------|--------|--------|
| 90%                    | 446.05 | 285.38 |
| 80%                    | 428.00 | 303.43 |

| Threshold Values           | Value | Below Outer Confidence Limit |
|----------------------------|-------|------------------------------|
| Residential with Uptake    |       |                              |
| Residential without Uptake |       |                              |
| Commercial                 |       |                              |

Is data normally distributed?  
Select test type Chebychev Theorem



# Appendix D Groundwater Data

**Etiihad Campus - Site Improvement Works**

Results from Made Ground (Perched Water)

Feb-23

| Determinand                         | Threshold Values                                                                    |                                                                                   |                                               |
|-------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|
|                                     | World Health Organisation (WHO) Drinking Water Guidelines 2017 (Refs 3 & 6) Potable | Environmental Quality Standards 2015 (Refs 2, 4 & 5) AA or Long Term (Mean) Fresh | Water Supply Regulations 2018 (Ref 1) Potable |
| pH                                  |                                                                                     |                                                                                   | 6.5 - 9.0                                     |
| Hardness                            |                                                                                     |                                                                                   |                                               |
| Nitrate (NO3-)                      | 50000                                                                               |                                                                                   | 50000                                         |
| Chloride                            |                                                                                     | 250000                                                                            |                                               |
| Sulphate                            |                                                                                     | 400000                                                                            |                                               |
| Cyanide                             | 70                                                                                  | 1                                                                                 | 50                                            |
| Mercury                             | 6                                                                                   |                                                                                   | 1                                             |
| Arsenic                             | 10                                                                                  | 50                                                                                | 10                                            |
| Boron                               | 2400                                                                                | 2000                                                                              | 1000                                          |
| Cadmium (Class 5) <sup>5</sup>      | 3                                                                                   | 0.25                                                                              | 5                                             |
| Chromium (total)                    | 50                                                                                  |                                                                                   | 50                                            |
| Copper                              | 2000                                                                                | 1                                                                                 | 2000                                          |
| Lead                                | 10                                                                                  | 1.2                                                                               | 10                                            |
| Nickel                              | 70                                                                                  | 4                                                                                 | 20                                            |
| Selenium                            | 40                                                                                  |                                                                                   | 10                                            |
| Zinc                                |                                                                                     | 10.9                                                                              |                                               |
| Naphthalene                         |                                                                                     | 2                                                                                 |                                               |
| Acenaphthene                        |                                                                                     |                                                                                   |                                               |
| Acenaphthylene                      |                                                                                     |                                                                                   |                                               |
| Fluoranthene                        |                                                                                     | 0.0063                                                                            |                                               |
| Anthracene                          |                                                                                     | 0.1                                                                               |                                               |
| Phenanthrene                        |                                                                                     |                                                                                   |                                               |
| Fluorene                            |                                                                                     |                                                                                   |                                               |
| Chrysene                            |                                                                                     |                                                                                   |                                               |
| Pyrene                              |                                                                                     |                                                                                   |                                               |
| Benzo(a)anthracene                  |                                                                                     |                                                                                   |                                               |
| Benzo(b)fluoranthene                |                                                                                     |                                                                                   |                                               |
| Benzo(k)fluoranthene                |                                                                                     |                                                                                   |                                               |
| Benzo(a)pyrene                      | 0.7                                                                                 | 0.00017                                                                           | 0.01                                          |
| Dibenzo(a,h)anthracene              |                                                                                     |                                                                                   |                                               |
| Benzo(g,h,i)perylene                |                                                                                     |                                                                                   |                                               |
| Indeno(1,2,3-cd)pyrene              |                                                                                     |                                                                                   |                                               |
| Benzene                             | 10                                                                                  | 10                                                                                | 1                                             |
| Toluene                             | 700                                                                                 | 74                                                                                |                                               |
| Ethylbenzene                        | 300                                                                                 | 20                                                                                |                                               |
| m,p-Xylene                          |                                                                                     |                                                                                   |                                               |
| o-Xylene                            |                                                                                     |                                                                                   |                                               |
| Total Aliphatics & Aromatics >C5-35 |                                                                                     |                                                                                   |                                               |
| Phenol                              |                                                                                     | 7.7                                                                               |                                               |

| Number of exceedences                                                               |                                                                                   |                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|
| World Health Organisation (WHO) Drinking Water Guidelines 2017 (Refs 3 & 6) Potable | Environmental Quality Standards 2015 (Refs 2, 4 & 5) AA or Long Term (Mean) Fresh | Water Supply Regulations 2018 (Ref 1) Potable |
|                                                                                     |                                                                                   | 0                                             |
| 0                                                                                   |                                                                                   | 0                                             |
|                                                                                     | 0                                                                                 |                                               |
|                                                                                     | 1                                                                                 |                                               |
| 0                                                                                   | 5                                                                                 | 0                                             |
| 0                                                                                   |                                                                                   | 0                                             |
| 5                                                                                   | 0                                                                                 | 5                                             |
| 0                                                                                   | 0                                                                                 | 2                                             |
| 0                                                                                   | 0                                                                                 | 0                                             |
| 0                                                                                   |                                                                                   | 0                                             |
| 0                                                                                   | 3                                                                                 | 0                                             |
| 0                                                                                   | 0                                                                                 | 0                                             |
| 0                                                                                   | 6                                                                                 | 2                                             |
| 0                                                                                   |                                                                                   | 1                                             |
|                                                                                     | 1                                                                                 |                                               |
|                                                                                     | 6                                                                                 |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     | 4                                                                                 |                                               |
|                                                                                     | 4                                                                                 |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
| 0                                                                                   | 3                                                                                 | 3                                             |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
| 0                                                                                   | 0                                                                                 | 0                                             |
| 0                                                                                   | 0                                                                                 |                                               |
| 0                                                                                   | 0                                                                                 |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     |                                                                                   |                                               |
|                                                                                     | 6                                                                                 |                                               |

| Summary     |            |                       |                                   |
|-------------|------------|-----------------------|-----------------------------------|
| Total tests | Total <LoD | Maximum concentration | Location of maximum concentration |
| 6           | 0          | 11.1                  | BH22/06A Shallow                  |
| 6           | 0          | 1220                  | BH22-04 Shallow                   |
| 3           | 0          | 0.83                  | BH22/04 Shallow                   |
| 3           | 0          | 2000                  | BH22/04 Shallow                   |
| 6           | 0          | 448000                | BH22/06A Shallow                  |
| 6           | 1          | 49                    | BH22/06A Shallow                  |
| 6           | 4          | 0.41                  | BH22-06A Shallow                  |
| 6           | 0          | 22.8                  | BH22-06A Shallow                  |
| 6           | 0          | 1700                  | BH22/04 Shallow                   |
| 6           | 0          | 0.04                  | BH22/04 Shallow                   |
| 6           | 4          | 0.5                   | BH22-04 Shallow                   |
| 6           | 1          | 1.8                   | BH22/04 Shallow                   |
| 6           | 3          | 0.8                   | BH22-04 Shallow                   |
| 6           | 0          | 28                    | BH22/01 Shallow                   |
| 6           | 0          | 12                    | BH22/04 Shallow                   |
| 6           | 0          | 28                    | BH22-04 Shallow                   |
| 6           | 0          | 24.6                  | BH22/06A Shallow                  |
| 6           | 6          |                       |                                   |
| 6           | 0          | 4.44                  | BH22/06A Shallow                  |
| 6           | 2          | 1.79                  | BH22/06A Shallow                  |
| 6           | 2          | 3.86                  | BH22/04 Shallow                   |
| 6           | 3          | 0.93                  | BH22/04 Shallow                   |
| 6           | 2          | 2.77                  | BH22/06A Shallow                  |
| 6           | 2          | 2.52                  | BH22/06A Shallow                  |
| 6           | 3          | 0.81                  | BH22/06A Shallow                  |
| 6           | 3          | 0.81                  | BH22/06A Shallow                  |
| 6           | 3          | 1.46                  | BH22/04 Shallow                   |
| 6           | 3          | 0.4                   | BH22/04 Shallow                   |
| 6           | 3          | 0.69                  | BH22/06A Shallow                  |
| 6           | 4          | 0.41                  | BH22/06A Shallow                  |
| 6           | 6          |                       |                                   |
| 6           | 4          | 0.55                  | BH22/06A Shallow                  |
| 3           | 3          |                       |                                   |
| 3           | 3          |                       |                                   |
| 3           | 3          |                       |                                   |
| 3           | 3          |                       |                                   |
| 3           | 3          |                       |                                   |
| 6           | 0          | 880                   | BH22-06A Shallow                  |
| 6           | 0          | 88                    | BH22/01 Shallow                   |

## Etihad Campus - Site Improvement Works

### Results from Coal Measures (Secondary Aquifer)

Feb-23

| Determinand                         | Threshold Values                                                                    |                                                                                   |                                               |
|-------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|
|                                     | World Health Organisation (WHO) Drinking Water Guidelines 2017 (Refs 3 & 6) Potable | Environmental Quality Standards 2015 (Refs 2, 4 & 5) AA or Long Term (Mean) Fresh | Water Supply Regulations 2018 (Ref 1) Potable |
| pH                                  |                                                                                     |                                                                                   | 6.5 - 9.0                                     |
| Hardness                            |                                                                                     |                                                                                   |                                               |
|                                     |                                                                                     |                                                                                   |                                               |
| Nitrate (NO3-)                      | 50000                                                                               |                                                                                   | 50000                                         |
| Chloride                            |                                                                                     | 250000                                                                            |                                               |
| Sulphate                            |                                                                                     | 400000                                                                            |                                               |
|                                     |                                                                                     |                                                                                   |                                               |
| Cyanide                             | 70                                                                                  | 1                                                                                 | 50                                            |
|                                     |                                                                                     |                                                                                   |                                               |
| Mercury                             | 6                                                                                   |                                                                                   | 1                                             |
| Arsenic                             | 10                                                                                  | 50                                                                                | 10                                            |
| Boron                               | 2400                                                                                | 2000                                                                              | 1000                                          |
| Cadmium (Class 5) <sup>5</sup>      | 3                                                                                   | 0.25                                                                              | 5                                             |
| Chromium (total)                    | 50                                                                                  |                                                                                   | 50                                            |
| Copper                              | 2000                                                                                | 1                                                                                 | 2000                                          |
| Lead                                | 10                                                                                  | 1.2                                                                               | 10                                            |
| Nickel                              | 70                                                                                  | 4                                                                                 | 20                                            |
| Selenium                            | 40                                                                                  |                                                                                   | 10                                            |
| Zinc                                |                                                                                     | 10.9                                                                              |                                               |
|                                     |                                                                                     |                                                                                   |                                               |
| Naphthalene                         |                                                                                     | 2                                                                                 |                                               |
| Acenaphthene                        |                                                                                     |                                                                                   |                                               |
| Acenaphthylene                      |                                                                                     |                                                                                   |                                               |
| Fluoranthene                        |                                                                                     | 0.0063                                                                            |                                               |
| Anthracene                          |                                                                                     | 0.1                                                                               |                                               |
| Phenanthrene                        |                                                                                     |                                                                                   |                                               |
| Fluorene                            |                                                                                     |                                                                                   |                                               |
| Chrysene                            |                                                                                     |                                                                                   |                                               |
| Pyrene                              |                                                                                     |                                                                                   |                                               |
| Benzo(a)anthracene                  |                                                                                     |                                                                                   |                                               |
| Benzo(b)fluoranthene                |                                                                                     |                                                                                   |                                               |
| Benzo(k)fluoranthene                |                                                                                     |                                                                                   |                                               |
| Benzo(a)pyrene                      | 0.7                                                                                 | 0.00017                                                                           | 0.01                                          |
| Dibenzo(a,h)anthracene              |                                                                                     |                                                                                   |                                               |
| Benzo(g,h,i)perylene                |                                                                                     |                                                                                   |                                               |
| Indeno(1,2,3-cd)pyrene              |                                                                                     |                                                                                   |                                               |
|                                     |                                                                                     |                                                                                   |                                               |
| Total Aliphatics & Aromatics >C5-35 |                                                                                     |                                                                                   |                                               |
|                                     |                                                                                     |                                                                                   |                                               |
| Phenol                              |                                                                                     | 7.7                                                                               |                                               |
|                                     |                                                                                     |                                                                                   |                                               |

[illegible]

| Summary     |            |                       |                                   |
|-------------|------------|-----------------------|-----------------------------------|
| Total tests | Total <LoD | Maximum concentration | Location of maximum concentration |
| 10          | 0          | 8.4                   | BH22/07 Deep                      |
| 10          | 0          | 850                   | BH22/07 Deep                      |
|             |            |                       |                                   |
| 5           | 0          | 1.09                  | BH22/05 Deep                      |
| 5           | 0          | 390                   | BH22/07 Deep                      |
| 10          | 0          | 465000                | BH22/07 Deep                      |
|             |            |                       |                                   |
| 10          | 8          | 140                   | BH22/07 Deep                      |
|             |            |                       |                                   |
| 10          | 9          | 0.84                  | BH22/07 Deep                      |
| 10          | 0          | 56.7                  | BH22/05 Deep                      |
| 10          | 0          | 1500                  | BH22/07 Deep                      |
| 10          | 4          | 0.14                  | BH22/01 Deep                      |
| 10          | 7          | 0.3                   | BH22/07 Deep                      |
| 10          | 3          | 3                     | BH22/07 Deep                      |
| 10          | 10         |                       |                                   |
| 10          | 0          | 93                    | BH22/07 Deep                      |
| 10          | 1          | 15                    | BH22/07 Deep                      |
| 10          | 0          | 88                    | BH22/03 Deep                      |
|             |            |                       |                                   |
| 10          | 1          | 976                   | BH22/01 Deep                      |
| 10          | 7          | 1.57                  | BH22/01 Deep                      |
| 10          | 1          | 30.1                  | BH22/01 Deep                      |
| 10          | 2          | 12.1                  | BH22/01 Deep                      |
| 10          | 4          | 6.06                  | BH22/01 Deep                      |
| 10          | 8          | 1                     | BH22/01 Deep                      |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
| 10          | 10         |                       |                                   |
|             |            |                       |                                   |
| 10          | 1          | 2300                  | BH22/01 Deep                      |
|             |            |                       |                                   |
| 10          | 7          | 400                   | BH22/07 Deep                      |
|             |            |                       |                                   |

# Appendix E Ground Gas Data

**Data entered by:** FNG  
**Date:** Feb-23  
**Site Name:** Etihad Campus SIW  
**Job Number:** 53810

### Step 1: Summary of Monitoring Data

[illegible]<sup>†</sup> Using highest concentration and highest flow rate.

Ref. 1 defines gas screening value (GSV) of gas =  $C_{hg}/100 \times q$   
Where:  $C_{hg}$  = hazardous gas concentrations (% v/v)  
 $q$  = flow rate (litres/hour)

| Borehole            | Peak CH4 GSV (l/hr) | CH4 GSV for peak gas concentration and flow rate (Table 8.5 - Ref. 1) | Peak CO2 GSV (l/hr) | CO2 GSV for peak gas concentration and flow rate (Table 8.5 - Ref. 1) |
|---------------------|---------------------|-----------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------|
| BH22/01             | -0.0002             | 1                                                                     | -0.0002             | 1                                                                     |
| BH22/02             | 0.0000              | 1                                                                     | 0.0000              | 1                                                                     |
| BH22/03             | 0.0000              | 1                                                                     | 0.0003              | 1                                                                     |
| BH22/04             | 0.0002              | 1                                                                     | 0.0002              | 1                                                                     |
| BH22/05             | 0.0000              | 1                                                                     | 0.0014              | 1                                                                     |
| BH22/06A            | 0.0000              | 1                                                                     | 0.0000              | 1                                                                     |
| BH22/07             | 0.0000              | 1                                                                     | 0.0000              | 1                                                                     |
| BH22/08             | 0.0001              | 1                                                                     | 0.0001              | 1                                                                     |
| (WS) TP22/01        | 0.0002              | 1                                                                     | 0.0004              | 1                                                                     |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
|                     |                     |                                                                       |                     |                                                                       |
| Worst Case Example+ | 0.0008              | 1                                                                     | 0.0108              | 1                                                                     |

| Lower limit (lhr) |   | Upper limit (lhr) |
|-------------------|---|-------------------|
| 0                 | 1 | 0.07              |
| 0.07              | 2 | 0.7               |
| 0.7               | 3 | 3.5               |
| 3.5               | 4 | 15                |
| 15                | 5 | 70                |
| 70                | 6 |                   |

Based on Wilson *et al.*, 1999, Reliability and Risk in Gas Protection Design

Ref. 1 defines gas screening value (GSV) of gas =  $C_{hg}/100 \times q$   
Where:  $C_{hg}$  = hazardous gas concentrations (% v/v)  
 $q$  = flow rate (litres/hour)

[illegible]

| CH4               |  |                   |      |                 |
|-------------------|--|-------------------|------|-----------------|
| Lower limit (lhr) |  | Upper limit (lhr) |      | Typical Maximum |
| 0                 |  | Green             | 0.16 | 1               |
| 0.16              |  | Amber 1           | 0.63 | 5               |
| 0.63              |  | Amber 2           | 1.56 | 20              |
| 1.56              |  | Red               |      |                 |

| Lower limit (lhr) | Upper limit (lhr) |      | Typical Maximum |
|-------------------|-------------------|------|-----------------|
| 0                 | Green             | 0.78 | 5               |
| 0.78              | Amber 1           | 1.56 | 10              |
| 1.56              | Amber 2           | 3.13 | 30              |
| 3.13              | Red               |      |                 |

Based on Boyle and Witherington, 2006, Guidance on Evaluation of Development Proposals on Sites Where Methane and Carbon Dioxide are Present, Incorporating 'Traffic Lights'

1

# Appendix F Preliminary Waste Classification

## Waste Classification Report

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

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



SHOJI-F2TX2-0SNVL

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

## Job name

Project North Stand Manchester

## Description/Comments

## Project

0053810

## Site

Manchester

## Classified by

Name:

Francesca Gould

Date:

31 Mar 2023 12:12 GMT

Telephone:

020 7927 9700

Company:

Buro Happold

17 Newman St,

London

W1T 1PD

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

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

50% complete

## Purpose of classification

2 - Material Characterisation

## Address of the waste

Eithad Campus, Manchester

Post Code N/A

## SIC for the process giving rise to the waste

## Description of industry/producer giving rise to the waste

Site improvement works on a previously industrial site

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

Historical industry including iron works and rail land. Infilled land. Coal mining area.

## Description of the waste

Made Ground

## Job summary

| #  | Sample name    | Depth [m] | Classification Result | Hazard properties    | Page |
|----|----------------|-----------|-----------------------|----------------------|------|
| 1  | OT22/01        | 1.30-1.50 | Non Hazardous         |                      | 4    |
| 2  | BH22/04        | 1.5       | Non Hazardous         |                      | 6    |
| 3  | BH22/06A       | 1.5       | Non Hazardous         |                      | 9    |
| 4  | TP22/02        | 3         | Non Hazardous         |                      | 12   |
| 5  | TP22/02[2]     | 1.00-1.10 | Non Hazardous         |                      | 15   |
| 6  | TP22/02[3]     | 2.50-2.60 | Non Hazardous         |                      | 18   |
| 7  | BH22/08        | 1.50      | Non Hazardous         |                      | 21   |
| 8  | BH22/08[2]     | 2.50      | Non Hazardous         |                      | 24   |
| 9  | BH22/08[3]     | 4.50      | Non Hazardous         |                      | 26   |
| 10 | BH22/04[2]     | 2.40      | Non Hazardous         |                      | 29   |
| 11 | BH22/07        | 1.50      | Non Hazardous         |                      | 31   |
| 12 | BH22/07[2]     | 2.40      | Non Hazardous         |                      | 33   |
| 13 | TP22/03        | 0.40-1.25 | Hazardous             | HP 8                 | 35   |
| 14 | TP22/03[2]     | 1.25-1.80 | Non Hazardous         |                      | 37   |
| 15 | TP22/03[3]     | 2.00-2.25 | Non Hazardous         |                      | 40   |
| 16 | OT22/02        | 0.90      | Non Hazardous         |                      | 42   |
| 17 | TP22/06        | 0.00-0.20 | Non Hazardous         |                      | 44   |
| 18 | TP22/06[2]     | 1.30-1.50 | Non Hazardous         |                      | 46   |
| 19 | TP22/06[3]     | 2.00-2.20 | Non Hazardous         |                      | 49   |
| 20 | TP22/07        | 0.20-0.40 | Hazardous             | HP 7, HP 8, HP 11    | 51   |
| 21 | TP22/07[2]     | 1.00-1.20 | Hazardous             | HP 7, HP 11          | 54   |
| 22 | TP22/07[3]     | 2.20-2.40 | Non Hazardous         |                      | 57   |
| 23 | TP22/07[4]     | 3.70-3.90 | Non Hazardous         |                      | 60   |
| 24 | BH22/06A[2]    | 3.70-3.90 | Non Hazardous         |                      | 62   |
| 25 | BH22/06A[3]    | 4.20-4.40 | Non Hazardous         |                      | 64   |
| 26 | (WS)TP22/08    | 0.50      | Non Hazardous         |                      | 66   |
| 27 | (WS)TP22/08[2] | 2.00      | Non Hazardous         |                      | 68   |
| 28 | (WS) TP22-05   | 0.50      | Non Hazardous         |                      | 71   |
| 29 | BH22/04[3]     | 3.20-3.40 | Hazardous             | HP 14                | 74   |
| 30 | BH22/04[4]     | 4.50-4.70 | Non Hazardous         |                      | 77   |
| 31 | (WS)TP22/01    | 0.50      | Non Hazardous         |                      | 79   |
| 32 | (WS)TP22/01[2] | 1.00      | Non Hazardous         |                      | 81   |
| 33 | (WS)TP22/01[3] | 1.80      | Non Hazardous         |                      | 83   |
| 34 | BH22/01        | 3.50      | Hazardous             | HP 3(i), HP 7, HP 11 | 86   |
| 35 | CPT22/08       | 0.20      | Non Hazardous         |                      | 89   |
| 36 | CPT22/08[2]    | 1.00      | Non Hazardous         |                      | 91   |
| 37 | BH22/01[2]     | 0.50      | Non Hazardous         |                      | 93   |
| 38 | BH22/01[3]     | 1.00      | Non Hazardous         |                      | 95   |
| 39 | CPT22/01       | 0.25      | Non Hazardous         |                      | 98   |
| 40 | CPT22/01[2]    | 1.00      | Hazardous             | HP 7, HP 11          | 100  |
| 41 | CPT22/03       | 0.35      | Non Hazardous         |                      | 103  |
| 42 | CPT22/04       | 0.25      | Non Hazardous         |                      | 105  |
| 43 | CPT22/04[2]    | 1.00      | Non Hazardous         |                      | 107  |
| 44 | CPT22/02       | 0.45-0.60 | Non Hazardous         |                      | 110  |
| 45 | CPT22/05       | 0.15-0.35 | Non Hazardous         |                      | 113  |
| 46 | CPT22/06       | 0.50-0.70 | Non Hazardous         |                      | 115  |
| 47 | CPT22/07       | 0.30-0.50 | Non Hazardous         |                      | 117  |
| 48 | BH22/05        | 0.50      | Non Hazardous         |                      | 119  |
| 49 | BH22/04[5]     | 0.50-0.70 | Non Hazardous         |                      | 121  |
| 50 | BH22/03        | 0.90-1.10 | Non Hazardous         |                      | 124  |
| 51 | BH22/02        | 0.90-1.10 | Non Hazardous         |                      | 127  |
| 52 | BH22/06        | 0.90-1.10 | Non Hazardous         |                      | 130  |
| 53 | BH22/08[4]     | 0.20      | Non Hazardous         |                      | 132  |
| 54 | BH22/08[5]     | 1.00      | Non Hazardous         |                      | 134  |
| 55 | BH22/03[2]     | 2.5       | Non Hazardous         |                      | 137  |
| 56 | BH22/02[2]     | 3.50      | Non Hazardous         |                      | 139  |
| 57 | BH22/02[3]     | 1.5       | Non Hazardous         |                      | 141  |
| 58 | BH22/05[2]     | 1.90-2.10 | Non Hazardous         |                      | 144  |
| 59 | BH22/05[3]     | 3.90-4.10 | Non Hazardous         |                      | 146  |

## Related documents

| # | Name       | Description                                   |
|---|------------|-----------------------------------------------|
| 1 | 2022 Geoff | waste stream template used to create this Job |

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## Report

Created by: Francesca Gould

Created date: 31 Mar 2023 12:12 GMT

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## Classification of sample: OT22/01



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>OT22/01</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.30-1.50 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>15%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 15% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 11                | mg/kg | 1.895        | 20.84          | mg/kg | 0.00208 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.3               | mg/kg | 5.719        | 1.716          | mg/kg | 0.000172 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2              | mg/kg | 1.142        | <0.228         | mg/kg | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 25                | mg/kg | 1.462        | 36.539         | mg/kg | 0.00365 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 25                | mg/kg | 1.252        | 31.294         | mg/kg | 0.00313 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 21                | mg/kg |              | 21             | mg/kg | 0.0021 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 29                | mg/kg | 2.976        | 86.312         | mg/kg | 0.00863 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 71                | mg/kg | 1.245        | 88.375         | mg/kg | 0.00884 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |       |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |       |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | <10 mg/kg         |              | <10 mg/kg      | <0.001 %             |            | <LOD           |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 0.28 mg/kg        |              | 0.28 mg/kg     | 0.000028 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | <                 |              | <              | <                    |            | ND             |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.19 mg/kg        |              | 0.19 mg/kg     | 0.000019 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 0.86 mg/kg        |              | 0.86 mg/kg     | 0.000086 %           |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 0.84 mg/kg        |              | 0.84 mg/kg     | 0.000084 %           |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 0.81 mg/kg        |              | 0.81 mg/kg     | 0.000081 %           |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 0.35 mg/kg        |              | 0.35 mg/kg     | 0.000035 %           |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 0.46 mg/kg        |              | 0.46 mg/kg     | 0.000046 %           |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 0.41 mg/kg        |              | 0.41 mg/kg     | 0.000041 %           |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.19 mg/kg        |              | 0.19 mg/kg     | 0.000019 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.18 mg/kg        |              | 0.18 mg/kg     | 0.000018 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 9 pH              |              | 9 pH           | 9pH                  |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0324 %             |            |                |

## 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: BH22/04



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/04</b>    | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.5 m</b>      | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>11%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 11% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. |  | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|--|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |  |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | <0.001 mg/kg      |              | <0.001 mg/kg   |  | <0.0000001 %         |            | <LOD           |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 14 mg/kg          | 1.895        | 26.523 mg/kg   |  | 0.00265 %            |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 1 mg/kg           | 5.719        | 5.719 mg/kg    |  | 0.000572 %           |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | 0.9 mg/kg         | 1.142        | 1.028 mg/kg    |  | 0.000103 %           |            |                |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 32 mg/kg          | 1.462        | 46.77 mg/kg    |  | 0.00468 %            |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 130 mg/kg         | 1.252        | 162.731 mg/kg  |  | 0.0163 %             |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 120 mg/kg         |              | 120 mg/kg      |  | 0.012 %              |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     |  | <0.00003 %           |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 16 mg/kg          | 2.976        | 47.62 mg/kg    |  | 0.00476 %            |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 360 mg/kg         | 1.245        | 448.097 mg/kg  |  | 0.0448 %             |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   |  | <0.000188 %          |            | <LOD           |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | benzene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-020-00-8                                             | 200-753-7 | 71-43-2    |          |                   |              |                |                      |            |                |
| 13     | toluene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-021-00-3                                             | 203-625-9 | 108-88-3   |          |                   |              |                |                      |            |                |
| 14     | ethylbenzene                                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-023-00-4                                             | 202-849-4 | 100-41-4   |          |                   |              |                |                      |            |                |
| 15     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 16     | TPH (C6 to C40) petroleum group                          |           |            |          | 330 mg/kg         |              | 330 mg/kg      | 0.033 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 17     | naphthalene                                              |           |            |          | 0.44 mg/kg        |              | 0.44 mg/kg     | 0.000044 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 18     | acenaphthylene                                           |           |            |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 19     | acenaphthene                                             |           |            |          | 0.51 mg/kg        |              | 0.51 mg/kg     | 0.000051 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 20     | fluorene                                                 |           |            |          | 0.45 mg/kg        |              | 0.45 mg/kg     | 0.000045 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 21     | phenanthrene                                             |           |            |          | 3.3 mg/kg         |              | 3.3 mg/kg      | 0.00033 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 22     | anthracene                                               |           |            |          | 0.94 mg/kg        |              | 0.94 mg/kg     | 0.000094 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 23     | fluoranthene                                             |           |            |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 24     | pyrene                                                   |           |            |          | 5.5 mg/kg         |              | 5.5 mg/kg      | 0.00055 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]anthracene                                       |           |            |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %            |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 26     | chrysene                                                 |           |            |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 27     | benzo[b]fluoranthene                                     |           |            |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 28     | benzo[k]fluoranthene                                     |           |            |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 29     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 30     | indeno[123-cd]pyrene                                     |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 31     | dibenz[a,h]anthracene                                    |           |            |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 32     | benzo[ghi]perylene                                       |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 33     | pH                                                       |           |            |          | 10.4 pH           |              | 10.4 pH        | 10.4 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 34     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.123 %              |            |                |

## 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                                                                   |

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## Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.033%)

## Classification of sample: BH22/06A

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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/06A</b>   | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.5 m</b>      | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>1.6%</b>       |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 1.6% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 8.3               | mg/kg | 1.895        | 15.725         | mg/kg | 0.00157 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.9               | mg/kg | 5.719        | 5.147          | mg/kg | 0.000515 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2              | mg/kg | 1.142        | <0.228         | mg/kg | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 17                | mg/kg | 1.462        | 24.846         | mg/kg | 0.00248 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 27                | mg/kg | 1.252        | 33.798         | mg/kg | 0.00338 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 53                | mg/kg |              | 53             | mg/kg | 0.0053 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 17                | mg/kg | 2.976        | 50.597         | mg/kg | 0.00506 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 73                | mg/kg | 1.245        | 90.864         | mg/kg | 0.00909 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1                | mg/kg |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |       |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1                | mg/kg |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |       |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1                | mg/kg |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 390 mg/kg         |              | 390 mg/kg      | 0.039 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.26 mg/kg        |              | 0.26 mg/kg     | 0.000026 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 21 mg/kg          |              | 21 mg/kg       | 0.0021 %             |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 35 mg/kg          |              | 35 mg/kg       | 0.0035 %             |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 33 mg/kg          |              | 33 mg/kg       | 0.0033 %             |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 12 mg/kg          |              | 12 mg/kg       | 0.0012 %             |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 5.9 mg/kg         |              | 5.9 mg/kg      | 0.00059 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %             |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 6.6 mg/kg         |              | 6.6 mg/kg      | 0.00066 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 7.5 mg/kg         |              | 7.5 mg/kg      | 0.00075 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 11.2 pH           |              | 11.2 pH        | 11.2 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0847 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.039%)

## Classification of sample: TP22/02



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

## Sample details

|                   |                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                          |
| <b>TP22/02</b>    | 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)                           |
| <b>3 m</b>        |                                                                                                    |
| Moisture content: |                                                                                                    |
| <b>12%</b>        |                                                                                                    |
| (no correction)   |                                                                                                    |

## Hazard properties

None identified

## Determinands

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | 0.007 mg/kg       |              | 0.007 mg/kg    | 0.0000007 %          |            |                |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 14 mg/kg          | 1.895        | 26.523 mg/kg   | 0.00265 %            |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 1.4 mg/kg         | 5.719        | 8.007 mg/kg    | 0.000801 %           |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | 1.1 mg/kg         | 1.142        | 1.257 mg/kg    | 0.000126 %           |            |                |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 34 mg/kg          | 1.462        | 49.693 mg/kg   | 0.00497 %            |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 110 mg/kg         | 1.252        | 137.695 mg/kg  | 0.0138 %             |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 330 mg/kg         |              | 330 mg/kg      | 0.033 %              |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 22 mg/kg          | 2.976        | 65.478 mg/kg   | 0.00655 %            |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 400 mg/kg         | 1.245        | 497.886 mg/kg  | 0.0498 %             |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |

| #      | Determinand                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | TPH (C6 to C40) petroleum group    |           |            |          | 150 mg/kg         |              | 150 mg/kg      | 0.015 %              |            |                |
|        |                                    |           | TPH        |          |                   |              |                |                      |            |                |
| 13     | naphthalene                        |           |            |          | 0.66 mg/kg        |              | 0.66 mg/kg     | 0.000066 %           |            |                |
|        | 601-052-00-2                       | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 14     | acenaphthylene                     |           |            |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
|        |                                    | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 15     | acenaphthene                       |           |            |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
|        |                                    | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 16     | fluorene                           |           |            |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
|        |                                    | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 17     | phenanthrene                       |           |            |          | 10 mg/kg          |              | 10 mg/kg       | 0.001 %              |            |                |
|        |                                    | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 18     | anthracene                         |           |            |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
|        |                                    | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 19     | fluoranthene                       |           |            |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
|        |                                    | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 20     | pyrene                             |           |            |          | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %             |            |                |
|        |                                    | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 21     | benzo[a]anthracene                 |           |            |          | 6.2 mg/kg         |              | 6.2 mg/kg      | 0.00062 %            |            |                |
|        | 601-033-00-9                       | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 22     | chrysene                           |           |            |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
|        | 601-048-00-0                       | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 23     | benzo[b]fluoranthene               |           |            |          | 7.6 mg/kg         |              | 7.6 mg/kg      | 0.00076 %            |            |                |
|        | 601-034-00-4                       | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 24     | benzo[k]fluoranthene               |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        | 601-036-00-5                       | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]pyrene; benzo[def]chrysene |           |            |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
|        | 601-032-00-3                       | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 26     | indeno[123-cd]pyrene               |           |            |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
|        |                                    | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 27     | dibenz[a,h]anthracene              |           |            |          | 0.6 mg/kg         |              | 0.6 mg/kg      | 0.00006 %            |            |                |
|        | 601-041-00-2                       | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 28     | benzo[ghi]perylene                 |           |            |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
|        |                                    | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 29     | pH                                 |           |            |          | 8.7 pH            |              | 8.7 pH         | 8.7 pH               |            |                |
|        |                                    |           | PH         |          |                   |              |                |                      |            |                |
| 30     | phenol                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                       | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                    |           |            |          |                   |              |                | 0.135 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

---

Because of determinand:

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

## Classification of sample: TP22/02[2]

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/02[2]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00-1.10 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>10%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 10% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 48                | mg/kg | 1.895        | 90.937         | mg/kg | 0.00909 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.1               | mg/kg | 5.719        | 6.291          | mg/kg | 0.000629 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 12                | mg/kg | 1.142        | 13.708         | mg/kg | 0.00137 %            |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 59                | mg/kg | 1.462        | 86.232         | mg/kg | 0.00862 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 410               | mg/kg | 1.252        | 513.228        | mg/kg | 0.0513 %             |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 480               | mg/kg |              | 480            | mg/kg | 0.048 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 35                | mg/kg | 2.976        | 104.169        | mg/kg | 0.0104 %             |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 1800              | mg/kg | 1.245        | 2240.485       | mg/kg | 0.224 %              |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |       |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |       |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 730 mg/kg         |              | 730 mg/kg      | 0.073 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 0.81 mg/kg        |              | 0.81 mg/kg     | 0.000081 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.93 mg/kg        |              | 0.93 mg/kg     | 0.000093 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.64 mg/kg        |              | 0.64 mg/kg     | 0.000064 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 6.2 mg/kg         |              | 6.2 mg/kg      | 0.00062 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 7.7 mg/kg         |              | 7.7 mg/kg      | 0.00077 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 7.6 mg/kg         |              | 7.6 mg/kg      | 0.00076 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %            |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 4.1 mg/kg         |              | 4.1 mg/kg      | 0.00041 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.96 mg/kg        |              | 0.96 mg/kg     | 0.000096 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.37 mg/kg        |              | 0.37 mg/kg     | 0.000037 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 10.1 pH           |              | 10.1 pH        | 10.1 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.433 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

---

Hazard Statements hit:

---

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

---

Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.073%)

## Classification of sample: TP22/02[3]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/02[3]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.50-2.60 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>16%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 16% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 17 mg/kg          | 1.895        | 32.207 mg/kg   | 0.00322 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.7 mg/kg         | 5.719        | 9.723 mg/kg    | 0.000972 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2 mg/kg        | 1.142        | <0.228 mg/kg   | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 46 mg/kg          | 1.462        | 67.232 mg/kg   | 0.00672 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 51 mg/kg          | 1.252        | 63.841 mg/kg   | 0.00638 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 63 mg/kg          |              | 63 mg/kg       | 0.0063 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 30 mg/kg          | 2.976        | 89.288 mg/kg   | 0.00893 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 280 mg/kg         | 1.245        | 348.52 mg/kg   | 0.0349 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 29 mg/kg          |              | 29 mg/kg       | 0.0029 %             |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 0.87 mg/kg        |              | 0.87 mg/kg     | 0.000087 %           |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 0.72 mg/kg        |              | 0.72 mg/kg     | 0.000072 %           |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 0.73 mg/kg        |              | 0.73 mg/kg     | 0.000073 %           |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 0.32 mg/kg        |              | 0.32 mg/kg     | 0.000032 %           |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 0.3 mg/kg         |              | 0.3 mg/kg      | 0.00003 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.16 mg/kg        |              | 0.16 mg/kg     | 0.000016 %           |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 8.1 pH            |              | 8.1 pH         | 8.1 pH               |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| 34     | carbon tetrachloride; tetrachloromethane                 |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 602-008-00-5                                             | 200-262-8 | 56-23-5    |          |                   |              |                |                      |            |                |
| 35     | vinyl chloride; chloroethylene                           |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 602-023-00-7                                             | 200-831-0 | 75-01-4    |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0741 %             |            |                |

## 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 Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0029%)

Classification of sample: BH22/08


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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/08</b>    | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>20%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 20% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |               |                | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number     | CAS Number     |          |                   |              |                |                      |            |                |
| 1  | asbestos                                                                                                                                                                               |               |                |          | 0.027 mg/kg       |              | 0.027 mg/kg    | 0.0000027 %          |            |                |
|    | 650-013-00-6                                                                                                                                                                           | -----         | 12001-28-4     |          |                   |              |                |                      |            |                |
|    |                                                                                                                                                                                        |               | 132207-32-0    |          |                   |              |                |                      |            |                |
|    |                                                                                                                                                                                        |               | 12172-73-5     |          |                   |              |                |                      |            |                |
|    |                                                                                                                                                                                        |               | 77536-66-4     |          |                   |              |                |                      |            |                |
|    |                                                                                                                                                                                        |               | 77536-68-6     |          |                   |              |                |                      |            |                |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |               |                |          | 20 mg/kg          | 1.895        | 37.89 mg/kg    | 0.00379 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |               |                |          |                   |              |                |                      |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |               |                |          | 4.6 mg/kg         | 5.719        | 26.308 mg/kg   | 0.00263 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1] | 10043-35-3 [1] |          |                   |              |                |                      |            |                |
|    |                                                                                                                                                                                        | 234-343-4 [2] | 11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 4  | cadmium { cadmium oxide }                                                                                                                                                              |               |                |          | 1.2 mg/kg         | 1.142        | 1.371 mg/kg    | 0.000137 %           |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2     | 1306-19-0      |          |                   |              |                |                      |            |                |
| 5  | chromium { chromium(III) oxide }                                                                                                                                                       |               |                |          | 64 mg/kg          | 1.462        | 93.54 mg/kg    | 0.00935 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9     | 1308-38-9      |          |                   |              |                |                      |            |                |
| 6  | copper { copper(II) oxide }                                                                                                                                                            |               |                |          | 71 mg/kg          | 1.252        | 88.876 mg/kg   | 0.00889 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1     | 1317-38-0      |          |                   |              |                |                      |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |               |                | 1        | 160 mg/kg         |              | 160 mg/kg      | 0.016 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |               |                |          |                   |              |                |                      |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |               |                | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |               |                |          |                   |              |                |                      |            |                |
| 9  | nickel { nickel chromate }                                                                                                                                                             |               |                |          | 32 mg/kg          | 2.976        | 95.24 mg/kg    | 0.00952 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5     | 14721-18-7     |          |                   |              |                |                      |            |                |
| 10 | zinc { zinc oxide }                                                                                                                                                                    |               |                |          | 350 mg/kg         | 1.245        | 435.65 mg/kg   | 0.0436 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5     | 1314-13-2      |          |                   |              |                |                      |            |                |
| 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 } |               |                |          | 1.5 mg/kg         | 1.884        | 2.826 mg/kg    | 0.000283 %           |            |                |
|    | 006-007-00-5                                                                                                                                                                           |               |                |          |                   |              |                |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | benzene                                                  |           |            |          | 52 mg/kg          |              | 52 mg/kg       | 0.0052 %             |            |                |
|        | 601-020-00-8                                             | 200-753-7 | 71-43-2    |          |                   |              |                |                      |            |                |
| 13     | toluene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-021-00-3                                             | 203-625-9 | 108-88-3   |          |                   |              |                |                      |            |                |
| 14     | ethylbenzene                                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-023-00-4                                             | 202-849-4 | 100-41-4   |          |                   |              |                |                      |            |                |
| 15     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 16     | TPH (C6 to C40) petroleum group                          |           |            |          | 770 mg/kg         |              | 770 mg/kg      | 0.077 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 17     | naphthalene                                              |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 18     | acenaphthylene                                           |           |            |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 19     | acenaphthene                                             |           |            |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 20     | fluorene                                                 |           |            |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 21     | phenanthrene                                             |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 22     | anthracene                                               |           |            |          | 4.3 mg/kg         |              | 4.3 mg/kg      | 0.00043 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 23     | fluoranthene                                             |           |            |          | 16 mg/kg          |              | 16 mg/kg       | 0.0016 %             |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 24     | pyrene                                                   |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]anthracene                                       |           |            |          | 8 mg/kg           |              | 8 mg/kg        | 0.0008 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 26     | chrysene                                                 |           |            |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 27     | benzo[b]fluoranthene                                     |           |            |          | 5.2 mg/kg         |              | 5.2 mg/kg      | 0.00052 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 28     | benzo[k]fluoranthene                                     |           |            |          | 3.3 mg/kg         |              | 3.3 mg/kg      | 0.00033 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 29     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 5.2 mg/kg         |              | 5.2 mg/kg      | 0.00052 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 30     | indeno[123-cd]pyrene                                     |           |            |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 31     | dibenz[a,h]anthracene                                    |           |            |          | 0.54 mg/kg        |              | 0.54 mg/kg     | 0.000054 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 32     | benzo[ghi]perylene                                       |           |            |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 33     | pH                                                       |           |            |          | 10.2 pH           |              | 10.2 pH        | 10.2 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.186 %              |            |                |

## 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 Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

benzene: (conc.: 0.0052%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.077%)

## Classification of sample: BH22/08[2]



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/08[2]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>19%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 19% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | 0.025 mg/kg       |              | 0.025 mg/kg    | 0.0000025 %          |            |                |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 11 mg/kg          | 1.895        | 20.84 mg/kg    | 0.00208 %            |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 3 mg/kg           | 5.719        | 17.158 mg/kg   | 0.00172 %            |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | 0.6 mg/kg         | 1.142        | 0.685 mg/kg    | 0.0000685 %          |            |                |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 36 mg/kg          | 1.462        | 52.616 mg/kg   | 0.00526 %            |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 44 mg/kg          | 1.252        | 55.078 mg/kg   | 0.00551 %            |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 110 mg/kg         |              | 110 mg/kg      | 0.011 %              |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 29 mg/kg          | 2.976        | 86.312 mg/kg   | 0.00863 %            |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 160 mg/kg         | 1.245        | 199.154 mg/kg  | 0.0199 %             |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |

| #      | Determinand                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | TPH (C6 to C40) petroleum group    |           |            |          | 670 mg/kg         |              | 670 mg/kg      | 0.067 %              |            |                |
|        |                                    |           | TPH        |          |                   |              |                |                      |            |                |
| 13     | naphthalene                        |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        | 601-052-00-2                       | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 14     | acenaphthylene                     |           |            |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
|        |                                    | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 15     | acenaphthene                       |           |            |          | 0.72 mg/kg        |              | 0.72 mg/kg     | 0.000072 %           |            |                |
|        |                                    | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 16     | fluorene                           |           |            |          | 0.63 mg/kg        |              | 0.63 mg/kg     | 0.000063 %           |            |                |
|        |                                    | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 17     | phenanthrene                       |           |            |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %            |            |                |
|        |                                    | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 18     | anthracene                         |           |            |          | 0.79 mg/kg        |              | 0.79 mg/kg     | 0.000079 %           |            |                |
|        |                                    | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 19     | fluoranthene                       |           |            |          | 3.4 mg/kg         |              | 3.4 mg/kg      | 0.00034 %            |            |                |
|        |                                    | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 20     | pyrene                             |           |            |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %            |            |                |
|        |                                    | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 21     | benzo[a]anthracene                 |           |            |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
|        | 601-033-00-9                       | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 22     | chrysene                           |           |            |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
|        | 601-048-00-0                       | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 23     | benzo[b]fluoranthene               |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        | 601-034-00-4                       | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 24     | benzo[k]fluoranthene               |           |            |          | 0.71 mg/kg        |              | 0.71 mg/kg     | 0.000071 %           |            |                |
|        | 601-036-00-5                       | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]pyrene; benzo[def]chrysene |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        | 601-032-00-3                       | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 26     | indeno[123-cd]pyrene               |           |            |          | 0.59 mg/kg        |              | 0.59 mg/kg     | 0.000059 %           |            |                |
|        |                                    | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 27     | dibenz[a,h]anthracene              |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        | 601-041-00-2                       | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 28     | benzo[ghi]perylene                 |           |            |          | 0.71 mg/kg        |              | 0.71 mg/kg     | 0.000071 %           |            |                |
|        |                                    | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 29     | pH                                 |           |            |          | 10.4 pH           |              | 10.4 pH        | 10.4 pH              |            |                |
|        |                                    |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                    |           |            |          |                   |              |                | 0.124 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.067%)

## Classification of sample: BH22/08[3]



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/08[3]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>4.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>17%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 17% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. |              | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|--------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |              |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | <0.001 mg/kg      |              | <0.001 mg/kg   | <0.0000001 % |                      |            | <LOD           |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 7.6 mg/kg         | 1.895        | 14.398 mg/kg   | 0.00144 %    |                      |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 0.7 mg/kg         | 5.719        | 4.003 mg/kg    | 0.0004 %     |                      |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | <0.2 mg/kg        | 1.142        | <0.228 mg/kg   | <0.0000228 % |                      |            | <LOD           |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 26 mg/kg          | 1.462        | 38 mg/kg       | 0.0038 %     |                      |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 23 mg/kg          | 1.252        | 28.791 mg/kg   | 0.00288 %    |                      |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 16 mg/kg          |              | 16 mg/kg       | 0.0016 %     |                      |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %   |                      |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 32 mg/kg          | 2.976        | 95.24 mg/kg    | 0.00952 %    |                      |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 60 mg/kg          | 1.245        | 74.683 mg/kg   | 0.00747 %    |                      |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %  |                      |            | <LOD           |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | benzene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-020-00-8                                             | 200-753-7 | 71-43-2    |          |                   |              |                |                      |            |                |
| 13     | toluene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-021-00-3                                             | 203-625-9 | 108-88-3   |          |                   |              |                |                      |            |                |
| 14     | ethylbenzene                                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-023-00-4                                             | 202-849-4 | 100-41-4   |          |                   |              |                |                      |            |                |
| 15     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 16     | TPH (C6 to C40) petroleum group                          |           |            |          | 80 mg/kg          |              | 80 mg/kg       | 0.008 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 17     | naphthalene                                              |           |            |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 18     | acenaphthylene                                           |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 19     | acenaphthene                                             |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 20     | fluorene                                                 |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 21     | phenanthrene                                             |           |            |          | 0.69 mg/kg        |              | 0.69 mg/kg     | 0.000069 %           |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 22     | anthracene                                               |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 23     | fluoranthene                                             |           |            |          | 0.75 mg/kg        |              | 0.75 mg/kg     | 0.000075 %           |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 24     | pyrene                                                   |           |            |          | 0.69 mg/kg        |              | 0.69 mg/kg     | 0.000069 %           |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]anthracene                                       |           |            |          | 0.35 mg/kg        |              | 0.35 mg/kg     | 0.000035 %           |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 26     | chrysene                                                 |           |            |          | 0.34 mg/kg        |              | 0.34 mg/kg     | 0.000034 %           |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 27     | benzo[b]fluoranthene                                     |           |            |          | 0.29 mg/kg        |              | 0.29 mg/kg     | 0.000029 %           |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 28     | benzo[k]fluoranthene                                     |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 29     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 30     | indeno[123-cd]pyrene                                     |           |            |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 31     | dibenz[a,h]anthracene                                    |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 32     | benzo[ghi]perylene                                       |           |            |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 33     | pH                                                       |           |            |          | 8.9 pH            |              | 8.9 pH         | 8.9 pH               |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0362 %             |            |                |

## 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 Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.008%)

Classification of sample: BH22/04[2]

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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/04[2]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.40 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>13%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 13% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 10 mg/kg          | 1.895        | 18.945         | mg/kg | 0.00189 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.4 mg/kg         | 5.719        | 13.726         | mg/kg | 0.00137 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.6 mg/kg         | 1.142        | 0.685          | mg/kg | 0.0000685 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 27 mg/kg          | 1.462        | 39.462         | mg/kg | 0.00395 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 60 mg/kg          | 1.252        | 75.107         | mg/kg | 0.00751 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 200 mg/kg         |              | 200            | mg/kg | 0.02 %               |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 27 mg/kg          | 2.976        | 80.359         | mg/kg | 0.00804 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 140 mg/kg         | 1.245        | 174.26         | mg/kg | 0.0174 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | naphthalene                                                                                                                                                                            |                                |                                  |          | 2.5 mg/kg         |              | 2.5            | mg/kg | 0.00025 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 12 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.29 mg/kg        |              | 0.29           | mg/kg | 0.000029 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthene                                                                                                                                                                           |                                |                                  |          | 4.3 mg/kg         |              | 4.3            | mg/kg | 0.00043 %            |            |                |
|    |                                                                                                                                                                                        | 201-469-6                      | 83-32-9                          |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | fluorene                           | 201-695-5    | 86-73-7    |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
| 15     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 23 mg/kg          |              | 23 mg/kg       | 0.0023 %             |            |                |
| 16     | anthracene                         | 204-371-1    | 120-12-7   |          | 6.1 mg/kg         |              | 6.1 mg/kg      | 0.00061 %            |            |                |
| 17     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 28 mg/kg          |              | 28 mg/kg       | 0.0028 %             |            |                |
| 18     | pyrene                             | 204-927-3    | 129-00-0   |          | 25 mg/kg          |              | 25 mg/kg       | 0.0025 %             |            |                |
| 19     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %             |            |                |
| 20     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 11 mg/kg          |              | 11 mg/kg       | 0.0011 %             |            |                |
| 21     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 12 mg/kg          |              | 12 mg/kg       | 0.0012 %             |            |                |
| 22     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 5.2 mg/kg         |              | 5.2 mg/kg      | 0.00052 %            |            |                |
| 23     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 12 mg/kg          |              | 12 mg/kg       | 0.0012 %             |            |                |
| 24     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
| 25     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 26     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 5.6 mg/kg         |              | 5.6 mg/kg      | 0.00056 %            |            |                |
| 27     | pH                                 |              | PH         |          | 10.2 pH           |              | 10.2 pH        | 10.2 pH              |            |                |
| 28     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0764 %             |            |                |

## 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: BH22/07


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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/07</b>    | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>17%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 17% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 16 mg/kg          | 1.895        | 30.312 mg/kg   | 0.00303 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.8 mg/kg         | 5.719        | 16.014 mg/kg   | 0.0016 %    |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.8 mg/kg         | 1.142        | 0.914 mg/kg    | 0.0000914 % |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 82 mg/kg          | 1.462        | 119.848 mg/kg  | 0.012 %     |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 98 mg/kg          | 1.252        | 122.674 mg/kg  | 0.0123 %    |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 230 mg/kg         |              | 230 mg/kg      | 0.023 %     |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 27 mg/kg          | 2.976        | 80.359 mg/kg   | 0.00804 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 210 mg/kg         | 1.245        | 261.39 mg/kg   | 0.0261 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |             |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |             |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                                                 |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-------------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                         | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE;<br>2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                                | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | naphthalene                                                 |           |            |          | 4.3 mg/kg         |              | 4.3 mg/kg      | 0.00043 %            |            |                |
|        | 601-052-00-2                                                | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 16     | acenaphthylene                                              |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                             | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 17     | acenaphthene                                                |           |            |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
|        |                                                             | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 18     | fluorene                                                    |           |            |          | 5.1 mg/kg         |              | 5.1 mg/kg      | 0.00051 %            |            |                |
|        |                                                             | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 19     | phenanthrene                                                |           |            |          | 26 mg/kg          |              | 26 mg/kg       | 0.0026 %             |            |                |
|        |                                                             | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 20     | anthracene                                                  |           |            |          | 6.3 mg/kg         |              | 6.3 mg/kg      | 0.00063 %            |            |                |
|        |                                                             | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 21     | fluoranthene                                                |           |            |          | 28 mg/kg          |              | 28 mg/kg       | 0.0028 %             |            |                |
|        |                                                             | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 22     | pyrene                                                      |           |            |          | 24 mg/kg          |              | 24 mg/kg       | 0.0024 %             |            |                |
|        |                                                             | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 23     | benzo[a]anthracene                                          |           |            |          | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %             |            |                |
|        | 601-033-00-9                                                | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 24     | chrysene                                                    |           |            |          | 9.2 mg/kg         |              | 9.2 mg/kg      | 0.00092 %            |            |                |
|        | 601-048-00-0                                                | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 25     | benzo[b]fluoranthene                                        |           |            |          | 11 mg/kg          |              | 11 mg/kg       | 0.0011 %             |            |                |
|        | 601-034-00-4                                                | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 26     | benzo[k]fluoranthene                                        |           |            |          | 3.4 mg/kg         |              | 3.4 mg/kg      | 0.00034 %            |            |                |
|        | 601-036-00-5                                                | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 27     | benzo[a]pyrene; benzo[def]chrysene                          |           |            |          | 9.1 mg/kg         |              | 9.1 mg/kg      | 0.00091 %            |            |                |
|        | 601-032-00-3                                                | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 28     | indeno[123-cd]pyrene                                        |           |            |          | 3.9 mg/kg         |              | 3.9 mg/kg      | 0.00039 %            |            |                |
|        |                                                             | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 29     | dibenz[a,h]anthracene                                       |           |            |          | 0.95 mg/kg        |              | 0.95 mg/kg     | 0.000095 %           |            |                |
|        | 601-041-00-2                                                | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 30     | benzo[ghi]perylene                                          |           |            |          | 5.1 mg/kg         |              | 5.1 mg/kg      | 0.00051 %            |            |                |
|        |                                                             | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 31     | pH                                                          |           |            |          | 10.2 pH           |              | 10.2 pH        | 10.2 pH              |            |                |
|        |                                                             |           | PH         |          |                   |              |                |                      |            |                |
| 32     | phenol                                                      |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                                | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                             |           |            |          |                   |              |                | 0.102 %              |            |                |

## 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: BH22/07[2]

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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/07[2]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.40 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>20%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 20% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 15 mg/kg          | 1.895        | 28.418         | mg/kg | 0.00284 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 3 mg/kg           | 5.719        | 17.158         | mg/kg | 0.00172 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.9 mg/kg         | 1.142        | 1.028          | mg/kg | 0.000103 %           |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 37 mg/kg          | 1.462        | 54.078         | mg/kg | 0.00541 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 160 mg/kg         | 1.252        | 200.284        | mg/kg | 0.02 %               |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 240 mg/kg         |              | 240            | mg/kg | 0.024 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 27 mg/kg          | 2.976        | 80.359         | mg/kg | 0.00804 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 260 mg/kg         | 1.245        | 323.626        | mg/kg | 0.0324 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1 mg/kg          |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | naphthalene                                              |           |            |          | 8.6 mg/kg         |              | 8.6 mg/kg      | 0.00086 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 16     | acenaphthylene                                           |           |            |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 17     | acenaphthene                                             |           |            |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 18     | fluorene                                                 |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 19     | phenanthrene                                             |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 20     | anthracene                                               |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 21     | fluoranthene                                             |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 22     | pyrene                                                   |           |            |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 23     | benzo[a]anthracene                                       |           |            |          | 7 mg/kg           |              | 7 mg/kg        | 0.0007 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 24     | chrysene                                                 |           |            |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 25     | benzo[b]fluoranthene                                     |           |            |          | 5.5 mg/kg         |              | 5.5 mg/kg      | 0.00055 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 26     | benzo[k]fluoranthene                                     |           |            |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 27     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 5.9 mg/kg         |              | 5.9 mg/kg      | 0.00059 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 28     | indeno[123-cd]pyrene                                     |           |            |          | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 29     | dibenz[a,h]anthracene                                    |           |            |          | 0.6 mg/kg         |              | 0.6 mg/kg      | 0.00006 %            |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 30     | benzo[ghi]perylene                                       |           |            |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 31     | pH                                                       |           | PH         |          | 10.1 pH           |              | 10.1 pH        | 10.1 pH              |            |                |
|        |                                                          |           |            |          |                   |              |                |                      |            |                |
| 32     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| 33     | carbon tetrachloride; tetrachloromethane                 |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 602-008-00-5                                             | 200-262-8 | 56-23-5    |          |                   |              |                |                      |            |                |
| 34     | vinyl chloride; chloroethylene                           |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 602-023-00-7                                             | 200-831-0 | 75-01-4    |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.105 %              |            |                |

## 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: TP22/03**

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/03</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.40-1.25 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 03 * (Soil and stones containing hazardous substances)                              |
| <b>8.1%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

**Hazard properties**

**HP 8: Corrosive** "waste which on application can cause skin corrosion"

**pH; pH** "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 12.2 pH)

**Determinands**

Moisture content: **8.1% No Moisture Correction applied (MC)**

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 8 mg/kg           | 1.895        | 15.156 mg/kg   | 0.00152 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.6 mg/kg         | 5.719        | 3.432 mg/kg    | 0.000343 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.8 mg/kg         | 1.142        | 0.914 mg/kg    | 0.0000914 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 22 mg/kg          | 1.462        | 32.154 mg/kg   | 0.00322 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 65 mg/kg          | 1.252        | 81.365 mg/kg   | 0.00814 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 100 mg/kg         |              | 100 mg/kg      | 0.01 %               |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 15 mg/kg          | 2.976        | 44.644 mg/kg   | 0.00446 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 140 mg/kg         | 1.245        | 174.26 mg/kg   | 0.0174 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |

| #      | Determinand                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 11     | TPH (C6 to C40) petroleum group    |           |            |          | 270 mg/kg         |              | 270 mg/kg      | 0.027 %              |            |                |
|        |                                    |           | TPH        |          |                   |              |                |                      |            |                |
| 12     | naphthalene                        |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        | 601-052-00-2                       | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 13     | acenaphthylene                     |           |            |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
|        |                                    | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        |                                    | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 15     | fluorene                           |           |            |          | 0.77 mg/kg        |              | 0.77 mg/kg     | 0.000077 %           |            |                |
|        |                                    | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 16     | phenanthrene                       |           |            |          | 7.2 mg/kg         |              | 7.2 mg/kg      | 0.00072 %            |            |                |
|        |                                    | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 17     | anthracene                         |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        |                                    | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 18     | fluoranthene                       |           |            |          | 8.6 mg/kg         |              | 8.6 mg/kg      | 0.00086 %            |            |                |
|        |                                    | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 19     | pyrene                             |           |            |          | 7.7 mg/kg         |              | 7.7 mg/kg      | 0.00077 %            |            |                |
|        |                                    | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 20     | benzo[a]anthracene                 |           |            |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %            |            |                |
|        | 601-033-00-9                       | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 21     | chrysene                           |           |            |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
|        | 601-048-00-0                       | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 22     | benzo[b]fluoranthene               |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        | 601-034-00-4                       | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 23     | benzo[k]fluoranthene               |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
|        | 601-036-00-5                       | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene |           |            |          | 3.3 mg/kg         |              | 3.3 mg/kg      | 0.00033 %            |            |                |
|        | 601-032-00-3                       | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 25     | indeno[123-cd]pyrene               |           |            |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %            |            |                |
|        |                                    | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 26     | dibenz[a,h]anthracene              |           |            |          | 0.33 mg/kg        |              | 0.33 mg/kg     | 0.000033 %           |            |                |
|        | 601-041-00-2                       | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 27     | benzo[ghi]perylene                 |           |            |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
|        |                                    | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 28     | pH                                 |           |            |          | 12.2 pH           |              | 12.2 pH        | 12.2 pH              |            |                |
|        |                                    |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                    |           |            |          |                   |              |                | 0.0772 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.027%)

## Classification of sample: TP22/03[2]

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/03[2]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.25-1.80 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>11%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 11% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 11 mg/kg          | 1.895        | 20.84          | mg/kg | 0.00208 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 3.7 mg/kg         | 5.719        | 21.161         | mg/kg | 0.00212 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.8 mg/kg         | 1.142        | 0.914          | mg/kg | 0.0000914 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 49 mg/kg          | 1.462        | 71.616         | mg/kg | 0.00716 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 69 mg/kg          | 1.252        | 86.373         | mg/kg | 0.00864 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 180 mg/kg         |              | 180            | mg/kg | 0.018 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 23 mg/kg          | 2.976        | 68.454         | mg/kg | 0.00685 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 240 mg/kg         | 1.245        | 298.731        | mg/kg | 0.0299 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |       |                      |            |                |

| #      |   | Determinand                                              |           |            | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |  |
|--------|---|----------------------------------------------------------|-----------|------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|--|
|        |   | EU CLP index number                                      | EC Number | CAS Number |          |                   |       |              |                |       |                      |            |                |  |
| 14     |   | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |  |
|        |   | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |       |              |                |       |                      |            |                |  |
| 15     | ● | TPH (C6 to C40) petroleum group                          |           |            |          | 370               | mg/kg |              | 370            | mg/kg | 0.037 %              |            |                |  |
|        |   |                                                          |           | TPH        |          |                   |       |              |                |       |                      |            |                |  |
| 16     |   | naphthalene                                              |           |            |          | 4.1               | mg/kg |              | 4.1            | mg/kg | 0.00041 %            |            |                |  |
|        |   | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |       |              |                |       |                      |            |                |  |
| 17     | ● | acenaphthylene                                           |           |            |          | 0.14              | mg/kg |              | 0.14           | mg/kg | 0.000014 %           |            |                |  |
|        |   |                                                          | 205-917-1 | 208-96-8   |          |                   |       |              |                |       |                      |            |                |  |
| 18     | ● | acenaphthene                                             |           |            |          | 1.7               | mg/kg |              | 1.7            | mg/kg | 0.00017 %            |            |                |  |
|        |   |                                                          | 201-469-6 | 83-32-9    |          |                   |       |              |                |       |                      |            |                |  |
| 19     | ● | fluorene                                                 |           |            |          | 1.6               | mg/kg |              | 1.6            | mg/kg | 0.00016 %            |            |                |  |
|        |   |                                                          | 201-695-5 | 86-73-7    |          |                   |       |              |                |       |                      |            |                |  |
| 20     | ● | phenanthrene                                             |           |            |          | 12                | mg/kg |              | 12             | mg/kg | 0.0012 %             |            |                |  |
|        |   |                                                          | 201-581-5 | 85-01-8    |          |                   |       |              |                |       |                      |            |                |  |
| 21     | ● | anthracene                                               |           |            |          | 3                 | mg/kg |              | 3              | mg/kg | 0.0003 %             |            |                |  |
|        |   |                                                          | 204-371-1 | 120-12-7   |          |                   |       |              |                |       |                      |            |                |  |
| 22     | ● | fluoranthene                                             |           |            |          | 13                | mg/kg |              | 13             | mg/kg | 0.0013 %             |            |                |  |
|        |   |                                                          | 205-912-4 | 206-44-0   |          |                   |       |              |                |       |                      |            |                |  |
| 23     | ● | pyrene                                                   |           |            |          | 12                | mg/kg |              | 12             | mg/kg | 0.0012 %             |            |                |  |
|        |   |                                                          | 204-927-3 | 129-00-0   |          |                   |       |              |                |       |                      |            |                |  |
| 24     |   | benzo[a]anthracene                                       |           |            |          | 6.4               | mg/kg |              | 6.4            | mg/kg | 0.00064 %            |            |                |  |
|        |   | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |       |              |                |       |                      |            |                |  |
| 25     |   | chrysene                                                 |           |            |          | 5.2               | mg/kg |              | 5.2            | mg/kg | 0.00052 %            |            |                |  |
|        |   | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |       |              |                |       |                      |            |                |  |
| 26     |   | benzo[b]fluoranthene                                     |           |            |          | 6.4               | mg/kg |              | 6.4            | mg/kg | 0.00064 %            |            |                |  |
|        |   | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |       |              |                |       |                      |            |                |  |
| 27     |   | benzo[k]fluoranthene                                     |           |            |          | 2.3               | mg/kg |              | 2.3            | mg/kg | 0.00023 %            |            |                |  |
|        |   | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |       |              |                |       |                      |            |                |  |
| 28     |   | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 5.7               | mg/kg |              | 5.7            | mg/kg | 0.00057 %            |            |                |  |
|        |   | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |       |              |                |       |                      |            |                |  |
| 29     | ● | indeno[123-cd]pyrene                                     |           |            |          | 2.7               | mg/kg |              | 2.7            | mg/kg | 0.00027 %            |            |                |  |
|        |   |                                                          | 205-893-2 | 193-39-5   |          |                   |       |              |                |       |                      |            |                |  |
| 30     |   | dibenz[a,h]anthracene                                    |           |            |          | 0.61              | mg/kg |              | 0.61           | mg/kg | 0.000061 %           |            |                |  |
|        |   | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |       |              |                |       |                      |            |                |  |
| 31     | ● | benzo[ghi]perylene                                       |           |            |          | 3                 | mg/kg |              | 3              | mg/kg | 0.0003 %             |            |                |  |
|        |   |                                                          | 205-883-8 | 191-24-2   |          |                   |       |              |                |       |                      |            |                |  |
| 32     | ● | pH                                                       |           |            |          | 10.8              | pH    |              | 10.8           | pH    | 10.8 pH              |            |                |  |
|        |   |                                                          |           | PH         |          |                   |       |              |                |       |                      |            |                |  |
| Total: |   |                                                          |           |            |          |                   |       |              |                |       |                      | 0.122 %    |                |  |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.037%)

## Classification of sample: TP22/03[3]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/03[3]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.00-2.25 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>9.3%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 9.3% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 9 mg/kg           | 1.895        | 17.051 mg/kg   | 0.00171 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.9 mg/kg         | 5.719        | 16.586 mg/kg   | 0.00166 %   |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.7 mg/kg         | 1.142        | 0.8 mg/kg      | 0.00008 %   |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 35 mg/kg          | 1.462        | 51.154 mg/kg   | 0.00512 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 52 mg/kg          | 1.252        | 65.092 mg/kg   | 0.00651 %   |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 110 mg/kg         |              | 110 mg/kg      | 0.011 %     |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | 0.3 mg/kg         |              | 0.3 mg/kg      | 0.00003 %   |                      |            |                |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 21 mg/kg          | 2.976        | 62.502 mg/kg   | 0.00625 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 160 mg/kg         | 1.245        | 199.154 mg/kg  | 0.0199 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 130 mg/kg         |              | 130 mg/kg      | 0.013 %     |                      |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |             |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.77 mg/kg        |              | 0.77 mg/kg     | 0.000077 %  |                      |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |             |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %  |                      |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | • acenaphthene                     | 201-469-6    | 83-32-9    |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
| 15     | • fluorene                         | 201-695-5    | 86-73-7    |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 16     | • phenanthrene                     | 201-581-5    | 85-01-8    |          | 11 mg/kg          |              | 11 mg/kg       | 0.0011 %             |            |                |
| 17     | • anthracene                       | 204-371-1    | 120-12-7   |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
| 18     | • fluoranthene                     | 205-912-4    | 206-44-0   |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
| 19     | • pyrene                           | 204-927-3    | 129-00-0   |          | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 6.7 mg/kg         |              | 6.7 mg/kg      | 0.00067 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 5.4 mg/kg         |              | 5.4 mg/kg      | 0.00054 %            |            |                |
| 25     | • indeno[123-cd]pyrene             | 205-893-2    | 193-39-5   |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.65 mg/kg        |              | 0.65 mg/kg     | 0.000065 %           |            |                |
| 27     | • benzo[ghi]perylene               | 205-883-8    | 191-24-2   |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %            |            |                |
| 28     | • pH                               |              | PH         |          | 11.2 pH           |              | 11.2 pH        | 11.2 pH              |            |                |
| Total: |                                    |              |            |          |                   |              |                | 0.0732 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.013%)

## Classification of sample: OT22/02



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>OT22/02</b>    | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.90 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>7.7%</b>       |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

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

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 27 mg/kg          | 1.895        | 51.152 mg/kg   | 0.00512 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.5 mg/kg         | 5.719        | 2.86 mg/kg     | 0.000286 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.9 mg/kg         | 1.142        | 2.17 mg/kg     | 0.000217 %           |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 85 mg/kg          | 1.462        | 124.232 mg/kg  | 0.0124 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 100 mg/kg         | 1.252        | 125.178 mg/kg  | 0.0125 %             |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 170 mg/kg         |              | 170 mg/kg      | 0.017 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 22 mg/kg          | 2.976        | 65.478 mg/kg   | 0.00655 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 480 mg/kg         | 1.245        | 597.463 mg/kg  | 0.0597 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 2.3 mg/kg         | 1.884        | 4.333 mg/kg    | 0.000433 %           |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 79 mg/kg          |              | 79 mg/kg       | 0.0079 %             |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.69 mg/kg        |              | 0.69 mg/kg     | 0.000069 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.49 mg/kg        |              | 0.49 mg/kg     | 0.000049 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 7.8 mg/kg         |              | 7.8 mg/kg      | 0.00078 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 7.5 mg/kg         |              | 7.5 mg/kg      | 0.00075 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 3.4 mg/kg         |              | 3.4 mg/kg      | 0.00034 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 3.9 mg/kg         |              | 3.9 mg/kg      | 0.00039 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 4.1 mg/kg         |              | 4.1 mg/kg      | 0.00041 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 3.4 mg/kg         |              | 3.4 mg/kg      | 0.00034 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.41 mg/kg        |              | 0.41 mg/kg     | 0.000041 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
| 28     | pH                                 |              | PH         |          | 9.3 pH            |              | 9.3 pH         | 9.3 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.127 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0079%)

## Classification of sample: TP22/06



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/06</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.00-0.20 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>15%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 15% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 14 mg/kg          | 1.895        | 26.523 mg/kg   | 0.00265 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.1 mg/kg         | 5.719        | 6.291 mg/kg    | 0.000629 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.7 mg/kg         | 1.142        | 0.8 mg/kg      | 0.00008 %            |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 37 mg/kg          | 1.462        | 54.078 mg/kg   | 0.00541 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 54 mg/kg          | 1.252        | 67.596 mg/kg   | 0.00676 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 28 mg/kg          | 2.976        | 83.335 mg/kg   | 0.00833 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 200 mg/kg         | 1.245        | 248.943 mg/kg  | 0.0249 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 210 mg/kg         |              | 210 mg/kg      | 0.021 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.78 mg/kg        |              | 0.78 mg/kg     | 0.000078 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.16 mg/kg        |              | 0.16 mg/kg     | 0.000016 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.61 mg/kg        |              | 0.61 mg/kg     | 0.000061 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.63 mg/kg        |              | 0.63 mg/kg     | 0.000063 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 5.2 mg/kg         |              | 5.2 mg/kg      | 0.00052 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 5.6 mg/kg         |              | 5.6 mg/kg      | 0.00056 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 28     | pH                                 |              | PH         |          | 9.7 pH            |              | 9.7 pH         | 9.7 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0854 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.021%)

## Classification of sample: TP22/06[2]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/06[2]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.30-1.50 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>13%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 13% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 11                | mg/kg | 1.895        | 20.84          | mg/kg | 0.00208 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 4.9               | mg/kg | 5.719        | 28.024         | mg/kg | 0.0028 %             |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.6               | mg/kg | 1.142        | 0.685          | mg/kg | 0.0000685 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 33                | mg/kg | 1.462        | 48.231         | mg/kg | 0.00482 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 63                | mg/kg | 1.252        | 78.862         | mg/kg | 0.00789 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 150               | mg/kg |              | 150            | mg/kg | 0.015 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 26                | mg/kg | 2.976        | 77.383         | mg/kg | 0.00774 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 170               | mg/kg | 1.245        | 211.601        | mg/kg | 0.0212 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |       |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |       |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 440 mg/kg         |              | 440 mg/kg      | 0.044 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 0.95 mg/kg        |              | 0.95 mg/kg     | 0.000095 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.71 mg/kg        |              | 0.71 mg/kg     | 0.000071 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.62 mg/kg        |              | 0.62 mg/kg     | 0.000062 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 3.7 mg/kg         |              | 3.7 mg/kg      | 0.00037 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.85 mg/kg        |              | 0.85 mg/kg     | 0.000085 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 3.9 mg/kg         |              | 3.9 mg/kg      | 0.00039 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %            |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.85 mg/kg        |              | 0.85 mg/kg     | 0.000085 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.79 mg/kg        |              | 0.79 mg/kg     | 0.000079 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.2 mg/kg         |              | 0.2 mg/kg      | 0.00002 %            |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.97 mg/kg        |              | 0.97 mg/kg     | 0.000097 %           |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 11.2 pH           |              | 11.2 pH        | 11.2 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.11 %               |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

---

Hazard Statements hit:

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

---

Because of determinand:

---

TPH (C6 to C40) petroleum group: (conc.: 0.044%)

Classification of sample: TP22/06[3]

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/06[3]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.00-2.20 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>13%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 13% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 12 mg/kg          | 1.895        | 22.734         | mg/kg | 0.00227 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.9 mg/kg         | 5.719        | 5.147          | mg/kg | 0.000515 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.5 mg/kg         | 1.142        | 0.571          | mg/kg | 0.0000571 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 31 mg/kg          | 1.462        | 45.308         | mg/kg | 0.00453 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 46 mg/kg          | 1.252        | 57.582         | mg/kg | 0.00576 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 110 mg/kg         |              | 110            | mg/kg | 0.011 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 25 mg/kg          | 2.976        | 74.407         | mg/kg | 0.00744 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 170 mg/kg         | 1.245        | 211.601        | mg/kg | 0.0212 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 350 mg/kg         |              | 350            | mg/kg | 0.035 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 1.5 mg/kg         |              | 1.5            | mg/kg | 0.00015 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.15 mg/kg        |              | 0.15           | mg/kg | 0.000015 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.91 mg/kg        |              | 0.91 mg/kg     | 0.000091 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 5.5 mg/kg         |              | 5.5 mg/kg      | 0.00055 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 5.2 mg/kg         |              | 5.2 mg/kg      | 0.00052 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 5.2 mg/kg         |              | 5.2 mg/kg      | 0.00052 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.26 mg/kg        |              | 0.26 mg/kg     | 0.000026 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 28     | pH                                 |              | PH         |          | 11.3 pH           |              | 11.3 pH        | 11.3 pH              |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0915 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.035%)

Classification of sample: TP22/07

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/07</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.20-0.40 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 03 * (Soil and stones containing hazardous substances)                              |
| <b>8.2%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

**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.: 0.13%)

**HP 8: Corrosive** "waste which on application can cause skin corrosion"**pH; pH** "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 11.5 pH)

**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.: 0.13%)

**Determinands**Moisture content: **8.2% No Moisture Correction applied (MC)**

| # | Determinand                                                                                          |           |             | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|---|------------------------------------------------------------------------------------------------------|-----------|-------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|   | EU CLP index number                                                                                  | EC Number | CAS Number  |          |                   |              |                |                      |            |                |
| 1 | asbestos                                                                                             |           |             |          |                   |              |                |                      |            |                |
|   | 650-013-00-6                                                                                         | -----     | 12001-28-4  |          |                   |              |                |                      |            |                |
|   |                                                                                                      |           | 132207-32-0 |          |                   |              |                |                      |            |                |
|   |                                                                                                      |           | 12172-73-5  |          |                   |              |                |                      |            |                |
|   |                                                                                                      |           | 77536-66-4  |          |                   |              |                |                      |            |                |
|   |                                                                                                      |           | 77536-68-6  |          |                   |              |                |                      |            |                |
| 2 | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex } |           | 77536-67-5  |          |                   |              |                |                      |            |                |
|   |                                                                                                      |           | 12001-29-5  |          |                   |              |                |                      |            |                |
|   | 033-005-00-1                                                                                         |           |             |          |                   |              |                |                      |            |                |
|   |                                                                                                      |           |             |          | 11 mg/kg          | 1.895        | 20.84 mg/kg    | 0.00208 %            |            |                |

| #  | Determinand                                                                                                                                                                                   |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                           | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 3  | boron { <b>boric acid</b> ; [1] boric acid [2] }                                                                                                                                              |                                |                                  |          | 1.8 mg/kg         | 5.719        | 10.295 mg/kg   | 0.00103 %   |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                                  | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 4  | cadmium { <b>cadmium oxide</b> }                                                                                                                                                              |                                |                                  |          | 0.9 mg/kg         | 1.142        | 1.028 mg/kg    | 0.000103 %  |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                                  | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 5  | chromium { <b>chromium(III) oxide</b> }                                                                                                                                                       |                                |                                  |          | 30 mg/kg          | 1.462        | 43.847 mg/kg   | 0.00438 %   |                      |            |                |
|    |                                                                                                                                                                                               | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 6  | copper { <b>copper(II) oxide</b> }                                                                                                                                                            |                                |                                  |          | 61 mg/kg          | 1.252        | 76.358 mg/kg   | 0.00764 %   |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                                  | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 7  | lead { <b>lead compounds with the exception of those specified elsewhere in this Annex (worst case)</b> }                                                                                     |                                |                                  | 1        | 84 mg/kg          |              | 84 mg/kg       | 0.0084 %    |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                                  |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | mercury { <b>inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex</b> }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                                  |                                |                                  |          |                   |              |                |             |                      |            |                |
| 9  | nickel { <b>nickel chromate</b> }                                                                                                                                                             |                                |                                  |          | 22 mg/kg          | 2.976        | 65.478 mg/kg   | 0.00655 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                                  | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 10 | zinc { <b>zinc oxide</b> }                                                                                                                                                                    |                                |                                  |          | 190 mg/kg         | 1.245        | 236.496 mg/kg  | 0.0236 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                                  | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 11 | cyanides { <b>salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex</b> } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                                  |                                |                                  |          |                   |              |                |             |                      |            |                |
| 12 | TPH (C6 to C40) petroleum group                                                                                                                                                               |                                |                                  |          | 1300 mg/kg        |              | 1300 mg/kg     | 0.13 %      |                      |            |                |
|    |                                                                                                                                                                                               |                                | TPH                              |          |                   |              |                |             |                      |            |                |
| 13 | naphthalene                                                                                                                                                                                   |                                |                                  |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %   |                      |            |                |
|    | 601-052-00-2                                                                                                                                                                                  | 202-049-5                      | 91-20-3                          |          |                   |              |                |             |                      |            |                |
| 14 | acenaphthylene                                                                                                                                                                                |                                |                                  |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %    |                      |            |                |
|    |                                                                                                                                                                                               | 205-917-1                      | 208-96-8                         |          |                   |              |                |             |                      |            |                |
| 15 | acenaphthene                                                                                                                                                                                  |                                |                                  |          | 3.7 mg/kg         |              | 3.7 mg/kg      | 0.00037 %   |                      |            |                |
|    |                                                                                                                                                                                               | 201-469-6                      | 83-32-9                          |          |                   |              |                |             |                      |            |                |
| 16 | fluorene                                                                                                                                                                                      |                                |                                  |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %   |                      |            |                |
|    |                                                                                                                                                                                               | 201-695-5                      | 86-73-7                          |          |                   |              |                |             |                      |            |                |
| 17 | phenanthrene                                                                                                                                                                                  |                                |                                  |          | 17 mg/kg          |              | 17 mg/kg       | 0.0017 %    |                      |            |                |
|    |                                                                                                                                                                                               | 201-581-5                      | 85-01-8                          |          |                   |              |                |             |                      |            |                |
| 18 | anthracene                                                                                                                                                                                    |                                |                                  |          | 4.3 mg/kg         |              | 4.3 mg/kg      | 0.00043 %   |                      |            |                |
|    |                                                                                                                                                                                               | 204-371-1                      | 120-12-7                         |          |                   |              |                |             |                      |            |                |
| 19 | fluoranthene                                                                                                                                                                                  |                                |                                  |          | 19 mg/kg          |              | 19 mg/kg       | 0.0019 %    |                      |            |                |
|    |                                                                                                                                                                                               | 205-912-4                      | 206-44-0                         |          |                   |              |                |             |                      |            |                |
| 20 | pyrene                                                                                                                                                                                        |                                |                                  |          | 21 mg/kg          |              | 21 mg/kg       | 0.0021 %    |                      |            |                |
|    |                                                                                                                                                                                               | 204-927-3                      | 129-00-0                         |          |                   |              |                |             |                      |            |                |
| 21 | benzo[a]anthracene                                                                                                                                                                            |                                |                                  |          | 9.3 mg/kg         |              | 9.3 mg/kg      | 0.00093 %   |                      |            |                |
|    | 601-033-00-9                                                                                                                                                                                  | 200-280-6                      | 56-55-3                          |          |                   |              |                |             |                      |            |                |
| 22 | chrysene                                                                                                                                                                                      |                                |                                  |          | 9.2 mg/kg         |              | 9.2 mg/kg      | 0.00092 %   |                      |            |                |
|    | 601-048-00-0                                                                                                                                                                                  | 205-923-4                      | 218-01-9                         |          |                   |              |                |             |                      |            |                |
| 23 | benzo[b]fluoranthene                                                                                                                                                                          |                                |                                  |          | 7.9 mg/kg         |              | 7.9 mg/kg      | 0.00079 %   |                      |            |                |
|    | 601-034-00-4                                                                                                                                                                                  | 205-911-9                      | 205-99-2                         |          |                   |              |                |             |                      |            |                |
| 24 | benzo[k]fluoranthene                                                                                                                                                                          |                                |                                  |          | 4.2 mg/kg         |              | 4.2 mg/kg      | 0.00042 %   |                      |            |                |
|    | 601-036-00-5                                                                                                                                                                                  | 205-916-6                      | 207-08-9                         |          |                   |              |                |             |                      |            |                |
| 25 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                            |                                |                                  |          | 7.7 mg/kg         |              | 7.7 mg/kg      | 0.00077 %   |                      |            |                |
|    | 601-032-00-3                                                                                                                                                                                  | 200-028-5                      | 50-32-8                          |          |                   |              |                |             |                      |            |                |
| 26 | indeno[123-cd]pyrene                                                                                                                                                                          |                                |                                  |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %   |                      |            |                |
|    |                                                                                                                                                                                               | 205-893-2                      | 193-39-5                         |          |                   |              |                |             |                      |            |                |
| 27 | dibenz[a,h]anthracene                                                                                                                                                                         |                                |                                  |          | 0.89 mg/kg        |              | 0.89 mg/kg     | 0.000089 %  |                      |            |                |
|    | 601-041-00-2                                                                                                                                                                                  | 200-181-8                      | 53-70-3                          |          |                   |              |                |             |                      |            |                |
| 28 | benzo[ghi]perylene                                                                                                                                                                            |                                |                                  |          | 4 mg/kg           |              | 4 mg/kg        | 0.0004 %    |                      |            |                |
|    |                                                                                                                                                                                               | 205-883-8                      | 191-24-2                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand         |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|---------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 29     | pH                  |           |            |          | 11.5 pH           |              | 11.5 pH        | 11.5 pH              |            |                |
| 30     | phenol              |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2        | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                     |           |            |          |                   |              |                | 0.196 %              |            |                |

## 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** No significant contamination observed within this trial pit that would cause this soil sample to be flammable (i.e. no free product). Concentration only slightly over 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.13%)

**Classification of sample: TP22/07[2]**

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/07[2]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00-1.20 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 03 * (Soil and stones containing hazardous substances)                              |
| <b>8.5%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

**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.: 0.13%)

**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.: 0.13%)

**Determinands**

Moisture content: **8.5% No Moisture Correction applied (MC)**

| # | Determinand                                                                                          |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |           | Classification value | MC Applied | Conc. Not Used |
|---|------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-----------|----------------------|------------|----------------|
|   | EU CLP index number                                                                                  | EC Number                      | CAS Number                       |          |                   |              |                |           |                      |            |                |
| 1 | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex } |                                |                                  |          | 14 mg/kg          | 1.895        | 26.523 mg/kg   | 0.00265 % |                      |            |                |
|   | 033-005-00-1                                                                                         |                                |                                  |          |                   |              |                |           |                      |            |                |
| 2 | boron { boric acid; [1] boric acid [2] }                                                             |                                |                                  |          | 2.2 mg/kg         | 5.719        | 12.582 mg/kg   | 0.00126 % |                      |            |                |
|   | 005-007-00-2                                                                                         | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |           |                      |            |                |
| 3 | cadmium { cadmium oxide }                                                                            |                                |                                  |          | 0.7 mg/kg         | 1.142        | 0.8 mg/kg      | 0.00008 % |                      |            |                |
|   | 048-002-00-0                                                                                         | 215-146-2                      | 1306-19-0                        |          |                   |              |                |           |                      |            |                |
| 4 | chromium { chromium(III) oxide }                                                                     |                                |                                  |          | 34 mg/kg          | 1.462        | 49.693 mg/kg   | 0.00497 % |                      |            |                |
|   |                                                                                                      | 215-160-9                      | 1308-38-9                        |          |                   |              |                |           |                      |            |                |
| 5 | copper { copper(II) oxide }                                                                          |                                |                                  |          | 57 mg/kg          | 1.252        | 71.351 mg/kg   | 0.00714 % |                      |            |                |
|   | 029-016-00-6                                                                                         | 215-269-1                      | 1317-38-0                        |          |                   |              |                |           |                      |            |                |
| 6 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }   |                                |                                  | 1        | 94 mg/kg          |              | 94 mg/kg       | 0.0094 %  |                      |            |                |
|   | 082-001-00-6                                                                                         |                                |                                  |          |                   |              |                |           |                      |            |                |

| #      | Determinand                                                                                                                                                                            |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. |  | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|--|----------------------|------------|----------------|
|        | EU CLP index number                                                                                                                                                                    | EC Number | CAS Number |          |                   |              |                |  |                      |            |                |
| 7      | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |           |            | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     |  | <0.00003 %           |            | <LOD           |
|        | 080-002-00-6                                                                                                                                                                           |           |            |          |                   |              |                |  |                      |            |                |
| 8      | nickel { nickel chromate }                                                                                                                                                             |           |            |          | 26 mg/kg          | 2.976        | 77.383 mg/kg   |  | 0.00774 %            |            |                |
|        | 028-035-00-7                                                                                                                                                                           | 238-766-5 | 14721-18-7 |          |                   |              |                |  |                      |            |                |
| 9      | zinc { zinc oxide }                                                                                                                                                                    |           |            |          | 190 mg/kg         | 1.245        | 236.496 mg/kg  |  | 0.0236 %             |            |                |
|        | 030-013-00-7                                                                                                                                                                           | 215-222-5 | 1314-13-2  |          |                   |              |                |  |                      |            |                |
| 10     | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |           |            |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   |  | <0.000188 %          |            | <LOD           |
|        | 006-007-00-5                                                                                                                                                                           |           |            |          |                   |              |                |  |                      |            |                |
| 11     | TPH (C6 to C40) petroleum group                                                                                                                                                        |           |            |          | 1300 mg/kg        |              | 1300 mg/kg     |  | 0.13 %               |            |                |
|        |                                                                                                                                                                                        |           | TPH        |          |                   |              |                |  |                      |            |                |
| 12     | naphthalene                                                                                                                                                                            |           |            |          | 13 mg/kg          |              | 13 mg/kg       |  | 0.0013 %             |            |                |
|        | 601-052-00-2                                                                                                                                                                           | 202-049-5 | 91-20-3    |          |                   |              |                |  |                      |            |                |
| 13     | acenaphthylene                                                                                                                                                                         |           |            |          | 2 mg/kg           |              | 2 mg/kg        |  | 0.0002 %             |            |                |
|        |                                                                                                                                                                                        | 205-917-1 | 208-96-8   |          |                   |              |                |  |                      |            |                |
| 14     | acenaphthene                                                                                                                                                                           |           |            |          | 8.1 mg/kg         |              | 8.1 mg/kg      |  | 0.00081 %            |            |                |
|        |                                                                                                                                                                                        | 201-469-6 | 83-32-9    |          |                   |              |                |  |                      |            |                |
| 15     | fluorene                                                                                                                                                                               |           |            |          | 5.2 mg/kg         |              | 5.2 mg/kg      |  | 0.00052 %            |            |                |
|        |                                                                                                                                                                                        | 201-695-5 | 86-73-7    |          |                   |              |                |  |                      |            |                |
| 16     | phenanthrene                                                                                                                                                                           |           |            |          | 21 mg/kg          |              | 21 mg/kg       |  | 0.0021 %             |            |                |
|        |                                                                                                                                                                                        | 201-581-5 | 85-01-8    |          |                   |              |                |  |                      |            |                |
| 17     | anthracene                                                                                                                                                                             |           |            |          | 6.5 mg/kg         |              | 6.5 mg/kg      |  | 0.00065 %            |            |                |
|        |                                                                                                                                                                                        | 204-371-1 | 120-12-7   |          |                   |              |                |  |                      |            |                |
| 18     | fluoranthene                                                                                                                                                                           |           |            |          | 16 mg/kg          |              | 16 mg/kg       |  | 0.0016 %             |            |                |
|        |                                                                                                                                                                                        | 205-912-4 | 206-44-0   |          |                   |              |                |  |                      |            |                |
| 19     | pyrene                                                                                                                                                                                 |           |            |          | 19 mg/kg          |              | 19 mg/kg       |  | 0.0019 %             |            |                |
|        |                                                                                                                                                                                        | 204-927-3 | 129-00-0   |          |                   |              |                |  |                      |            |                |
| 20     | benzo[a]anthracene                                                                                                                                                                     |           |            |          | 9.1 mg/kg         |              | 9.1 mg/kg      |  | 0.00091 %            |            |                |
|        | 601-033-00-9                                                                                                                                                                           | 200-280-6 | 56-55-3    |          |                   |              |                |  |                      |            |                |
| 21     | chrysene                                                                                                                                                                               |           |            |          | 9 mg/kg           |              | 9 mg/kg        |  | 0.0009 %             |            |                |
|        | 601-048-00-0                                                                                                                                                                           | 205-923-4 | 218-01-9   |          |                   |              |                |  |                      |            |                |
| 22     | benzo[b]fluoranthene                                                                                                                                                                   |           |            |          | 9.1 mg/kg         |              | 9.1 mg/kg      |  | 0.00091 %            |            |                |
|        | 601-034-00-4                                                                                                                                                                           | 205-911-9 | 205-99-2   |          |                   |              |                |  |                      |            |                |
| 23     | benzo[k]fluoranthene                                                                                                                                                                   |           |            |          | 2.2 mg/kg         |              | 2.2 mg/kg      |  | 0.00022 %            |            |                |
|        | 601-036-00-5                                                                                                                                                                           | 205-916-6 | 207-08-9   |          |                   |              |                |  |                      |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                     |           |            |          | 8 mg/kg           |              | 8 mg/kg        |  | 0.0008 %             |            |                |
|        | 601-032-00-3                                                                                                                                                                           | 200-028-5 | 50-32-8    |          |                   |              |                |  |                      |            |                |
| 25     | indeno[123-cd]pyrene                                                                                                                                                                   |           |            |          | 3.5 mg/kg         |              | 3.5 mg/kg      |  | 0.00035 %            |            |                |
|        |                                                                                                                                                                                        | 205-893-2 | 193-39-5   |          |                   |              |                |  |                      |            |                |
| 26     | dibenz[a,h]anthracene                                                                                                                                                                  |           |            |          | 0.9 mg/kg         |              | 0.9 mg/kg      |  | 0.00009 %            |            |                |
|        | 601-041-00-2                                                                                                                                                                           | 200-181-8 | 53-70-3    |          |                   |              |                |  |                      |            |                |
| 27     | benzo[ghi]perylene                                                                                                                                                                     |           |            |          | 3.9 mg/kg         |              | 3.9 mg/kg      |  | 0.00039 %            |            |                |
|        |                                                                                                                                                                                        | 205-883-8 | 191-24-2   |          |                   |              |                |  |                      |            |                |
| 28     | pH                                                                                                                                                                                     |           |            |          | 10.4 pH           |              | 10.4 pH        |  | 10.4 pH              |            |                |
|        |                                                                                                                                                                                        |           | PH         |          |                   |              |                |  |                      |            |                |
| 29     | phenol                                                                                                                                                                                 |           |            |          | <1 mg/kg          |              | <1 mg/kg       |  | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                                                                                                                                                           | 203-632-7 | 108-95-2   |          |                   |              |                |  |                      |            |                |
| Total: |                                                                                                                                                                                        |           |            |          |                   |              |                |  | 0.201 %              |            |                |

## 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 No significant contamination observed within this trial pit that would cause this soil sample to be flammable (i.e. no free product). Concentration only slightly over 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.13%)

## Classification of sample: TP22/07[3]


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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/07[3]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.20-2.40 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>11%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 11% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 22 mg/kg          | 1.895        | 41.68          | mg/kg | 0.00417 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.1 mg/kg         | 5.719        | 6.291          | mg/kg | 0.000629 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.2 mg/kg         | 1.142        | 1.371          | mg/kg | 0.000137 %           |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 50 mg/kg          | 1.462        | 73.078         | mg/kg | 0.00731 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 62 mg/kg          | 1.252        | 77.61          | mg/kg | 0.00776 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 130 mg/kg         |              | 130            | mg/kg | 0.013 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 29 mg/kg          | 2.976        | 86.312         | mg/kg | 0.00863 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 370 mg/kg         | 1.245        | 460.544        | mg/kg | 0.0461 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 3.3 mg/kg         | 1.884        | 6.217          | mg/kg | 0.000622 %           |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 150 mg/kg         |              | 150 mg/kg      | 0.015 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.98 mg/kg        |              | 0.98 mg/kg     | 0.000098 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.78 mg/kg        |              | 0.78 mg/kg     | 0.000078 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 5.4 mg/kg         |              | 5.4 mg/kg      | 0.00054 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 6.2 mg/kg         |              | 6.2 mg/kg      | 0.00062 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 6 mg/kg           |              | 6 mg/kg        | 0.0006 %             |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 3 mg/kg           |              | 3 mg/kg        | 0.0003 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.34 mg/kg        |              | 0.34 mg/kg     | 0.000034 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 11 pH             |              | 11 pH          | 11pH                 |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.109 %              |            |                |

## 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 Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

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Hazard Statements hit:

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

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Because of determinand:

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

## Classification of sample: TP22/07[4]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>TP22/07[4]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>3.70-3.90 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>13%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 13% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 17 mg/kg          | 1.895        | 32.207 mg/kg   | 0.00322 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 3 mg/kg           | 5.719        | 17.158 mg/kg   | 0.00172 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 59 mg/kg          | 1.462        | 86.232 mg/kg   | 0.00862 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 61 mg/kg          | 1.252        | 76.358 mg/kg   | 0.00764 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 32 mg/kg          | 2.976        | 95.24 mg/kg    | 0.00952 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 290 mg/kg         | 1.245        | 360.967 mg/kg  | 0.0361 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 2.3 mg/kg         | 1.884        | 4.333 mg/kg    | 0.000433 %           |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 290 mg/kg         |              | 290 mg/kg      | 0.029 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.18 mg/kg        |              | 0.18 mg/kg     | 0.000018 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. |            | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |            |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %  |                      |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %  |                      |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 7.1 mg/kg         |              | 7.1 mg/kg      | 0.00071 %  |                      |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %  |                      |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 6.7 mg/kg         |              | 6.7 mg/kg      | 0.00067 %  |                      |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 6.6 mg/kg         |              | 6.6 mg/kg      | 0.00066 %  |                      |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 3.3 mg/kg         |              | 3.3 mg/kg      | 0.00033 %  |                      |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %  |                      |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %  |                      |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %  |                      |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %  |                      |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %  |                      |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.36 mg/kg        |              | 0.36 mg/kg     | 0.000036 % |                      |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %  |                      |            |                |
| 28     | pH                                 |              | PH         |          | 10.2 pH           |              | 10.2 pH        | 10.2 pH    |                      |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %  |                      |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                |            | 0.113 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.029%)

## Classification of sample: BH22/06A[2]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/06A[2]</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>3.70-3.90 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>10%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 10% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 8.2 mg/kg         | 1.895        | 15.535 mg/kg   | 0.00155 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.4 mg/kg         | 5.719        | 8.007 mg/kg    | 0.000801 %  |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.5 mg/kg         | 1.142        | 0.571 mg/kg    | 0.0000571 % |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 17 mg/kg          | 1.462        | 24.846 mg/kg   | 0.00248 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 48 mg/kg          | 1.252        | 60.085 mg/kg   | 0.00601 %   |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 67 mg/kg          |              | 67 mg/kg       | 0.0067 %    |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 16 mg/kg          | 2.976        | 47.62 mg/kg    | 0.00476 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 97 mg/kg          | 1.245        | 120.737 mg/kg  | 0.0121 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 500 mg/kg         |              | 500 mg/kg      | 0.05 %      |                      |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |             |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %   |                      |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |             |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | • acenaphthene                     | 201-469-6    | 83-32-9    |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
| 15     | • fluorene                         | 201-695-5    | 86-73-7    |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
| 16     | • phenanthrene                     | 201-581-5    | 85-01-8    |          | 20 mg/kg          |              | 20 mg/kg       | 0.002 %              |            |                |
| 17     | • anthracene                       | 204-371-1    | 120-12-7   |          | 5.5 mg/kg         |              | 5.5 mg/kg      | 0.00055 %            |            |                |
| 18     | • fluoranthene                     | 205-912-4    | 206-44-0   |          | 34 mg/kg          |              | 34 mg/kg       | 0.0034 %             |            |                |
| 19     | • pyrene                           | 204-927-3    | 129-00-0   |          | 34 mg/kg          |              | 34 mg/kg       | 0.0034 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %             |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 7.6 mg/kg         |              | 7.6 mg/kg      | 0.00076 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
| 25     | • indeno[123-cd]pyrene             | 205-893-2    | 193-39-5   |          | 6.2 mg/kg         |              | 6.2 mg/kg      | 0.00062 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 27     | • benzo[ghi]perylene               | 205-883-8    | 191-24-2   |          | 7 mg/kg           |              | 7 mg/kg        | 0.0007 %             |            |                |
| 28     | • pH                               |              | PH         |          | 10.6 pH           |              | 10.6 pH        | 10.6 pH              |            |                |
| Total: |                                    |              |            |          |                   |              |                | 0.102 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.05%)

## Classification of sample: BH22/06A[3]

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/06A[3]</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>4.20-4.40 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>15%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: **15% No Moisture Correction applied (MC)**

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 7.7 mg/kg         | 1.895        | 14.588 mg/kg   | 0.00146 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.3 mg/kg         | 5.719        | 1.716 mg/kg    | 0.000172 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.3 mg/kg         | 1.142        | 0.343 mg/kg    | 0.0000343 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 29 mg/kg          | 1.462        | 42.385 mg/kg   | 0.00424 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 30 mg/kg          | 1.252        | 37.553 mg/kg   | 0.00376 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 18 mg/kg          |              | 18 mg/kg       | 0.0018 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 32 mg/kg          | 2.976        | 95.24 mg/kg    | 0.00952 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 73 mg/kg          | 1.245        | 90.864 mg/kg   | 0.00909 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | <10 mg/kg         |              | <10 mg/kg      | <0.001 %             |            | <LOD           |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | • acenaphthene                     | 201-469-6    | 83-32-9    |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
| 15     | • fluorene                         | 201-695-5    | 86-73-7    |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
| 16     | • phenanthrene                     | 201-581-5    | 85-01-8    |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 17     | • anthracene                       | 204-371-1    | 120-12-7   |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
| 18     | • fluoranthene                     | 205-912-4    | 206-44-0   |          | 0.85 mg/kg        |              | 0.85 mg/kg     | 0.000085 %           |            |                |
| 19     | • pyrene                           | 204-927-3    | 129-00-0   |          | 0.72 mg/kg        |              | 0.72 mg/kg     | 0.000072 %           |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 0.36 mg/kg        |              | 0.36 mg/kg     | 0.000036 %           |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 0.29 mg/kg        |              | 0.29 mg/kg     | 0.000029 %           |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
| 25     | • indeno[123-cd]pyrene             | 205-893-2    | 193-39-5   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 27     | • benzo[ghi]perylene               | 205-883-8    | 191-24-2   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 28     | • pH                               |              | PH         |          | 9 pH              |              | 9 pH           | 9pH                  |            |                |
| Total: |                                    |              |            |          |                   |              |                | 0.0318 %             |            |                |

## 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: (WS)TP22/08



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>(WS)TP22/08</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50 m</b>      | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>8.4%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 8.4% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 12 mg/kg          | 1.895        | 22.734 mg/kg   | 0.00227 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.9 mg/kg         | 5.719        | 10.866 mg/kg   | 0.00109 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.3 mg/kg         | 1.142        | 1.485 mg/kg    | 0.000149 %           |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 30 mg/kg          | 1.462        | 43.847 mg/kg   | 0.00438 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 63 mg/kg          | 1.252        | 78.862 mg/kg   | 0.00789 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 18 mg/kg          | 2.976        | 53.573 mg/kg   | 0.00536 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 180 mg/kg         | 1.245        | 224.049 mg/kg  | 0.0224 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 1.2 mg/kg         | 1.884        | 2.261 mg/kg    | 0.000226 %           |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 350 mg/kg         |              | 350 mg/kg      | 0.035 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | • acenaphthene                     | 201-469-6    | 83-32-9    |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 15     | • fluorene                         | 201-695-5    | 86-73-7    |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 16     | • phenanthrene                     | 201-581-5    | 85-01-8    |          | 8.5 mg/kg         |              | 8.5 mg/kg      | 0.00085 %            |            |                |
| 17     | • anthracene                       | 204-371-1    | 120-12-7   |          | 1.9 mg/kg         |              | 1.9 mg/kg      | 0.00019 %            |            |                |
| 18     | • fluoranthene                     | 205-912-4    | 206-44-0   |          | 8.3 mg/kg         |              | 8.3 mg/kg      | 0.00083 %            |            |                |
| 19     | • pyrene                           | 204-927-3    | 129-00-0   |          | 8.1 mg/kg         |              | 8.1 mg/kg      | 0.00081 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 4.2 mg/kg         |              | 4.2 mg/kg      | 0.00042 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
| 25     | • indeno[123-cd]pyrene             | 205-893-2    | 193-39-5   |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
| 27     | • benzo[ghi]perylene               | 205-883-8    | 191-24-2   |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
| 28     | • pH                               |              | PH         |          | 10 pH             |              | 10 pH          | 10pH                 |            |                |
| Total: |                                    |              |            |          |                   |              |                | 0.0961 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.035%)

## Classification of sample: (WS)TP22/08[2]



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

## Sample details

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Sample name:          | LoW Code:                                                                                 |
| <b>(WS)TP22/08[2]</b> | Chapter:                                                                                  |
| Sample Depth:         | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.00 m</b>         | Entry:                                                                                    |
| Moisture content:     | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>16%</b>            |                                                                                           |
| (no correction)       |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 16% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 12 mg/kg          | 1.895        | 22.734 mg/kg   | 0.00227 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.1 mg/kg         | 5.719        | 6.291 mg/kg    | 0.000629 %  |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.6 mg/kg         | 1.142        | 0.685 mg/kg    | 0.0000685 % |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 34 mg/kg          | 1.462        | 49.693 mg/kg   | 0.00497 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 93 mg/kg          | 1.252        | 116.415 mg/kg  | 0.0116 %    |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 90 mg/kg          |              | 90 mg/kg       | 0.009 %     |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 26 mg/kg          | 2.976        | 77.383 mg/kg   | 0.00774 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 150 mg/kg         | 1.245        | 186.707 mg/kg  | 0.0187 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 2.8 mg/kg         | 1.884        | 5.275 mg/kg    | 0.000528 %  |                      |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %   |                      |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |             |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %   |                      |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |             |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %   |                      |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. |  | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|--|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |  |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       |  | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |  |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 280 mg/kg         |              | 280 mg/kg      |  | 0.028 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |  |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      |  | 0.00015 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |  |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.12 mg/kg        |              | 0.12 mg/kg     |  | 0.000012 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |  |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.65 mg/kg        |              | 0.65 mg/kg     |  | 0.000065 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |  |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.51 mg/kg        |              | 0.51 mg/kg     |  | 0.000051 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |  |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 3 mg/kg           |              | 3 mg/kg        |  | 0.0003 %             |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |  |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.67 mg/kg        |              | 0.67 mg/kg     |  | 0.000067 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |  |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 3.2 mg/kg         |              | 3.2 mg/kg      |  | 0.00032 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |  |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 3.2 mg/kg         |              | 3.2 mg/kg      |  | 0.00032 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |  |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      |  | 0.00018 %            |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |  |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      |  | 0.00013 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |  |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 1.4 mg/kg         |              | 1.4 mg/kg      |  | 0.00014 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |  |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.73 mg/kg        |              | 0.73 mg/kg     |  | 0.000073 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |  |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      |  | 0.00013 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |  |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.58 mg/kg        |              | 0.58 mg/kg     |  | 0.000058 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |  |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.12 mg/kg        |              | 0.12 mg/kg     |  | 0.000012 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |  |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.68 mg/kg        |              | 0.68 mg/kg     |  | 0.000068 %           |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |  |                      |            |                |
| 32     | pH                                                       |           |            |          | 10.3 pH           |              | 10.3 pH        |  | 10.3 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |  |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                |  | 0.0876 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.028%)

## Classification of sample: (WS) TP22-05

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

## Sample details

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| Sample name:        | LoW Code:                                                                                 |
| <b>(WS) TP22-05</b> | Chapter:                                                                                  |
| Sample Depth:       | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50 m</b>       | Entry:                                                                                    |
| Moisture content:   | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>2.6%</b>         |                                                                                           |
| (no correction)     |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 2.6% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 2.3               | mg/kg | 1.895        | 4.357          | mg/kg | 0.000436 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.9               | mg/kg | 5.719        | 5.147          | mg/kg | 0.000515 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 6.6               | mg/kg | 1.462        | 9.646          | mg/kg | 0.000965 %           |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 15                | mg/kg | 1.252        | 18.777         | mg/kg | 0.00188 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 12                | mg/kg |              | 12             | mg/kg | 0.0012 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 3.7               | mg/kg | 2.976        | 11.012         | mg/kg | 0.0011 %             |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 21                | mg/kg | 1.245        | 26.139         | mg/kg | 0.00261 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |       |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |       |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5                | mg/kg |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 37 mg/kg          |              | 37 mg/kg       | 0.0037 %             |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.05 mg/kg        |              | 0.05 mg/kg     | 0.000005 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 0.33 mg/kg        |              | 0.33 mg/kg     | 0.000033 %           |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 0.36 mg/kg        |              | 0.36 mg/kg     | 0.000036 %           |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.07 mg/kg        |              | 0.07 mg/kg     | 0.000007 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 0.16 mg/kg        |              | 0.16 mg/kg     | 0.000016 %           |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.06 mg/kg        |              | 0.06 mg/kg     | 0.000006 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 11.4 pH           |              | 11.4 pH        | 11.4 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0149 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.0037%)

**Classification of sample: BH22/04[3]**

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/04[3]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>3.20-3.40 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 03 * (Soil and stones containing hazardous substances)                              |
| <b>16%</b>         |                                                                                           |
| (no 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 oxide: (compound conc.: 0.473%)

**Determinands**

Moisture content: **16%** No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 84 mg/kg          | 1.895        | 159.14 mg/kg   | 0.0159 %    |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.8 mg/kg         | 5.719        | 16.014 mg/kg   | 0.0016 %    |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 11 mg/kg          | 1.142        | 12.566 mg/kg   | 0.00126 %   |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 61 mg/kg          | 1.462        | 89.155 mg/kg   | 0.00892 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 610 mg/kg         | 1.252        | 763.584 mg/kg  | 0.0764 %    |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 400 mg/kg         |              | 400 mg/kg      | 0.04 %      |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 56 mg/kg          | 2.976        | 166.671 mg/kg  | 0.0167 %    |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 3800 mg/kg        | 1.245        | 4729.913 mg/kg | 0.473 %     |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |

| #      | Determinand                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 11     | TPH (C6 to C40) petroleum group    |           |            |          | 560 mg/kg         |              | 560 mg/kg      | 0.056 %              |            |                |
|        |                                    |           | TPH        |          |                   |              |                |                      |            |                |
| 12     | naphthalene                        |           |            |          | 0.68 mg/kg        |              | 0.68 mg/kg     | 0.000068 %           |            |                |
|        | 601-052-00-2                       | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 13     | acenaphthylene                     |           |            |          | 0.21 mg/kg        |              | 0.21 mg/kg     | 0.000021 %           |            |                |
|        |                                    | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       |           |            |          | 2.7 mg/kg         |              | 2.7 mg/kg      | 0.00027 %            |            |                |
|        |                                    | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 15     | fluorene                           |           |            |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
|        |                                    | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 16     | phenanthrene                       |           |            |          | 19 mg/kg          |              | 19 mg/kg       | 0.0019 %             |            |                |
|        |                                    | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 17     | anthracene                         |           |            |          | 5 mg/kg           |              | 5 mg/kg        | 0.0005 %             |            |                |
|        |                                    | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 18     | fluoranthene                       |           |            |          | 31 mg/kg          |              | 31 mg/kg       | 0.0031 %             |            |                |
|        |                                    | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 19     | pyrene                             |           |            |          | 30 mg/kg          |              | 30 mg/kg       | 0.003 %              |            |                |
|        |                                    | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 20     | benzo[a]anthracene                 |           |            |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
|        | 601-033-00-9                       | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 21     | chrysene                           |           |            |          | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
|        | 601-048-00-0                       | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 22     | benzo[b]fluoranthene               |           |            |          | 19 mg/kg          |              | 19 mg/kg       | 0.0019 %             |            |                |
|        | 601-034-00-4                       | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 23     | benzo[k]fluoranthene               |           |            |          | 4.5 mg/kg         |              | 4.5 mg/kg      | 0.00045 %            |            |                |
|        | 601-036-00-5                       | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        | 601-032-00-3                       | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 25     | indeno[123-cd]pyrene               |           |            |          | 7.4 mg/kg         |              | 7.4 mg/kg      | 0.00074 %            |            |                |
|        |                                    | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 26     | dibenz[a,h]anthracene              |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        | 601-041-00-2                       | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 27     | benzo[ghi]perylene                 |           |            |          | 7.7 mg/kg         |              | 7.7 mg/kg      | 0.00077 %            |            |                |
|        |                                    | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 28     | pH                                 |           |            |          | 8 pH              |              | 8 pH           | 8pH                  |            |                |
|        |                                    |           | PH         |          |                   |              |                |                      |            |                |
| 29     | phenol                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                       | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                    |           |            |          |                   |              |                | 0.707 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.056%)

Classification of sample: BH22/04[4]


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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/04[4]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>4.50-4.70 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>15%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 15% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 25 mg/kg          | 1.895        | 47.363         | mg/kg | 0.00474 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.4 mg/kg         | 5.719        | 8.007          | mg/kg | 0.000801 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.4 mg/kg         | 1.142        | 1.599          | mg/kg | 0.00016 %            |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 86 mg/kg          | 1.462        | 125.694        | mg/kg | 0.0126 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 160 mg/kg         | 1.252        | 200.284        | mg/kg | 0.02 %               |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 75 mg/kg          |              | 75             | mg/kg | 0.0075 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 21 mg/kg          | 2.976        | 62.502         | mg/kg | 0.00625 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 400 mg/kg         | 1.245        | 497.886        | mg/kg | 0.0498 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 390 mg/kg         |              | 390            | mg/kg | 0.039 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.81 mg/kg        |              | 0.81           | mg/kg | 0.000081 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.11 mg/kg        |              | 0.11           | mg/kg | 0.000011 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 3 mg/kg           |              | 3 mg/kg        | 0.0003 %             |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 17 mg/kg          |              | 17 mg/kg       | 0.0017 %             |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 19 mg/kg          |              | 19 mg/kg       | 0.0019 %             |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 17 mg/kg          |              | 17 mg/kg       | 0.0017 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 8.3 mg/kg         |              | 8.3 mg/kg      | 0.00083 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 6.3 mg/kg         |              | 6.3 mg/kg      | 0.00063 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 8.9 mg/kg         |              | 8.9 mg/kg      | 0.00089 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 2.3 mg/kg         |              | 2.3 mg/kg      | 0.00023 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 7.2 mg/kg         |              | 7.2 mg/kg      | 0.00072 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.93 mg/kg        |              | 0.93 mg/kg     | 0.000093 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 3.4 mg/kg         |              | 3.4 mg/kg      | 0.00034 %            |            |                |
| 28     | pH                                 |              | PH         |          | 8.7 pH            |              | 8.7 pH         | 8.7 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.152 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.039%)

Classification of sample: (WS)TP22/01

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>(WS)TP22/01</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50 m</b>      | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>12%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |               |                | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number     | CAS Number     |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |               |                |          | 6.5               | mg/kg | 1.895        | 12.314         | mg/kg | 0.00123 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |               |                |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |               |                |          | 1.1               | mg/kg | 5.719        | 6.291          | mg/kg | 0.000629 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1] | 10043-35-3 [1] |          |                   |       |              |                |       |                      |            |                |
|    |                                                                                                                                                                                        | 234-343-4 [2] | 11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |               |                |          | 0.6               | mg/kg | 1.142        | 0.685          | mg/kg | 0.0000685 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2     | 1306-19-0      |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |               |                |          | 16                | mg/kg | 1.462        | 23.385         | mg/kg | 0.00234 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9     | 1308-38-9      |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |               |                |          | 11                | mg/kg | 1.252        | 13.77          | mg/kg | 0.00138 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1     | 1317-38-0      |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |               |                | 1        | 36                | mg/kg |              | 36             | mg/kg | 0.0036 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |               |                |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |               |                | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |               |                |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |               |                |          | 15                | mg/kg | 2.976        | 44.644         | mg/kg | 0.00446 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5     | 14721-18-7     |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |               |                |          | 110               | mg/kg | 1.245        | 136.919        | mg/kg | 0.0137 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5     | 1314-13-2      |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |               |                |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |               |                |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |               |                |          | 28                | mg/kg |              | 28             | mg/kg | 0.0028 %             |            |                |
|    |                                                                                                                                                                                        |               | TPH            |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |               |                |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5     | 91-20-3        |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |               |                |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1     | 208-96-8       |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.07 mg/kg        |              | 0.07 mg/kg     | 0.000007 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 0.55 mg/kg        |              | 0.55 mg/kg     | 0.000055 %           |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 0.85 mg/kg        |              | 0.85 mg/kg     | 0.000085 %           |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 0.61 mg/kg        |              | 0.61 mg/kg     | 0.000061 %           |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 0.45 mg/kg        |              | 0.45 mg/kg     | 0.000045 %           |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 0.78 mg/kg        |              | 0.78 mg/kg     | 0.000078 %           |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 0.19 mg/kg        |              | 0.19 mg/kg     | 0.000019 %           |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 0.55 mg/kg        |              | 0.55 mg/kg     | 0.000055 %           |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.24 mg/kg        |              | 0.24 mg/kg     | 0.000024 %           |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.07 mg/kg        |              | 0.07 mg/kg     | 0.000007 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 0.34 mg/kg        |              | 0.34 mg/kg     | 0.000034 %           |            |                |
| 28     | pH                                 |              | PH         |          | 9.4 pH            |              | 9.4 pH         | 9.4 pH               |            |                |
| Total: |                                    |              |            |          |                   |              |                | 0.031 %              |            |                |

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0028%)

Classification of sample: (WS)TP22/01[2]


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

### Sample details

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Sample name:          | LoW Code:                                                                                 |
| <b>(WS)TP22/01[2]</b> | Chapter:                                                                                  |
| Sample Depth:         | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00 m</b>         | Entry:                                                                                    |
| Moisture content:     | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>10%</b>            |                                                                                           |
| (no correction)       |                                                                                           |

### Hazard properties

None identified

### Determinands

Moisture content: 10% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 4.8               | mg/kg | 1.895        | 9.094          | mg/kg | 0.000909 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.6               | mg/kg | 5.719        | 3.432          | mg/kg | 0.000343 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 13                | mg/kg | 1.462        | 19             | mg/kg | 0.0019 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 7.7               | mg/kg | 1.252        | 9.639          | mg/kg | 0.000964 %           |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 29                | mg/kg |              | 29             | mg/kg | 0.0029 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 14                | mg/kg | 2.976        | 41.668         | mg/kg | 0.00417 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 82                | mg/kg | 1.245        | 102.067        | mg/kg | 0.0102 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 27                | mg/kg |              | 27             | mg/kg | 0.0027 %             |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.08 mg/kg        |              | 0.08 mg/kg     | 0.000008 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 0.79 mg/kg        |              | 0.79 mg/kg     | 0.000079 %           |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 0.63 mg/kg        |              | 0.63 mg/kg     | 0.000063 %           |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 0.6 mg/kg         |              | 0.6 mg/kg      | 0.00006 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 0.71 mg/kg        |              | 0.71 mg/kg     | 0.000071 %           |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 0.29 mg/kg        |              | 0.29 mg/kg     | 0.000029 %           |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 0.58 mg/kg        |              | 0.58 mg/kg     | 0.000058 %           |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.33 mg/kg        |              | 0.33 mg/kg     | 0.000033 %           |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 0.32 mg/kg        |              | 0.32 mg/kg     | 0.000032 %           |            |                |
| 28     | pH                                 |              | PH         |          | 9.2 pH            |              | 9.2 pH         | 9.2 pH               |            |                |
| Total: |                                    |              |            |          |                   |              |                | 0.0251 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0027%)

Classification of sample: (WS)TP22/01[3]

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

**Sample details**

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Sample name:          | LoW Code:                                                                                 |
| <b>(WS)TP22/01[3]</b> | Chapter:                                                                                  |
| Sample Depth:         | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.80 m</b>         | Entry:                                                                                    |
| Moisture content:     | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>8.7%</b>           |                                                                                           |
| (no correction)       |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 8.7% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 96 mg/kg          | 1.895        | 181.874        | mg/kg | 0.0182 %             |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 3.1 mg/kg         | 5.719        | 17.729         | mg/kg | 0.00177 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2 mg/kg        | 1.142        | <0.228         | mg/kg | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 120 mg/kg         | 1.462        | 175.387        | mg/kg | 0.0175 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 310 mg/kg         | 1.252        | 388.051        | mg/kg | 0.0388 %             |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 340 mg/kg         |              | 340            | mg/kg | 0.034 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 51 mg/kg          | 2.976        | 151.79         | mg/kg | 0.0152 %             |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 1300 mg/kg        | 1.245        | 1618.128       | mg/kg | 0.162 %              |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <5 mg/kg          |              | <5             | mg/kg | <0.0005 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <5 mg/kg          |              | <5 mg/kg       | <0.0005 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 39 mg/kg          |              | 39 mg/kg       | 0.0039 %             |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 0.7 mg/kg         |              | 0.7 mg/kg      | 0.00007 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 0.9 mg/kg         |              | 0.9 mg/kg      | 0.00009 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 0.86 mg/kg        |              | 0.86 mg/kg     | 0.000086 %           |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 0.43 mg/kg        |              | 0.43 mg/kg     | 0.000043 %           |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 0.49 mg/kg        |              | 0.49 mg/kg     | 0.000049 %           |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 0.66 mg/kg        |              | 0.66 mg/kg     | 0.000066 %           |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.18 mg/kg        |              | 0.18 mg/kg     | 0.000018 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 0.45 mg/kg        |              | 0.45 mg/kg     | 0.000045 %           |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 8.2 pH            |              | 8.2 pH         | 8.2 pH               |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.294 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

---

Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.0039%)

**Classification of sample: BH22/01**

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

**Sample details**

|                   |                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                          |
| <b>BH22/01</b>    | Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| Sample Depth:     | Entry: 17 05 03 * (Soil and stones containing hazardous substances)                                |
| <b>3.50 m</b>     |                                                                                                    |
| Moisture content: |                                                                                                    |
| <b>23%</b>        |                                                                                                    |
| (no correction)   |                                                                                                    |

**Hazard properties**

**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 hazardous because** No visual hydrocarbon contamination observed however hydrocarbon odours were recorded.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

**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.: 0.17%)

**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.: 0.17%)

**Determinands**

Moisture content: **23% No Moisture Correction applied (MC)**

| # | Determinand                                                                                          |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |            | Classification value | MC Applied | Conc. Not Used |
|---|------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|------------|----------------------|------------|----------------|
|   | EU CLP index number                                                                                  | EC Number                      | CAS Number                       |          |                   |              |                |            |                      |            |                |
| 1 | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex } |                                |                                  |          | 29 mg/kg          | 1.895        | 54.941 mg/kg   | 0.00549 %  |                      |            |                |
|   | 033-005-00-1                                                                                         |                                |                                  |          |                   |              |                |            |                      |            |                |
| 2 | boron { boric acid; [1] boric acid [2] }                                                             |                                |                                  |          | 1.6 mg/kg         | 5.719        | 9.151 mg/kg    | 0.000915 % |                      |            |                |
|   | 005-007-00-2                                                                                         | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |            |                      |            |                |
| 3 | cadmium { cadmium oxide }                                                                            |                                |                                  |          | 2 mg/kg           | 1.142        | 2.285 mg/kg    | 0.000228 % |                      |            |                |
|   | 048-002-00-0                                                                                         | 215-146-2                      | 1306-19-0                        |          |                   |              |                |            |                      |            |                |

| #  | Determinand                                                                                                                                                                            |              |            | CLP Note   | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|------------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number    | CAS Number |            |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       | 215-160-9    | 1308-38-9  |            | 24 mg/kg          | 1.462        | 35.077 mg/kg   | 0.00351 %   |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            | 029-016-00-6 | 215-269-1  | 1317-38-0  | 190 mg/kg         | 1.252        | 237.838 mg/kg  | 0.0238 %    |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     | 082-001-00-6 |            |            | 100 mg/kg         |              | 100 mg/kg      | 0.01 %      |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         | 080-002-00-6 |            |            | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
| 8  | nickel { nickel chromate }                                                                                                                                                             | 028-035-00-7 | 238-766-5  | 14721-18-7 | 25 mg/kg          | 2.976        | 74.407 mg/kg   | 0.00744 %   |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    | 030-013-00-7 | 215-222-5  | 1314-13-2  | 440 mg/kg         | 1.245        | 547.674 mg/kg  | 0.0548 %    |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } | 006-007-00-5 |            |            | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
| 11 | benzene                                                                                                                                                                                | 601-020-00-8 | 200-753-7  | 71-43-2    | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
| 12 | toluene                                                                                                                                                                                | 601-021-00-3 | 203-625-9  | 108-88-3   | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
| 13 | ethylbenzene                                                                                                                                                                           | 601-023-00-4 | 202-849-4  | 100-41-4   | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
| 14 | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane                                                                                                                               | 603-181-00-X | 216-653-1  | 1634-04-4  | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
| 15 | TPH (C6 to C40) petroleum group                                                                                                                                                        |              |            | TPH        | 1700 mg/kg        |              | 1700 mg/kg     | 0.17 %      |                      |            |                |
| 16 | naphthalene                                                                                                                                                                            | 601-052-00-2 | 202-049-5  | 91-20-3    | 1.9 mg/kg         |              | 1.9 mg/kg      | 0.00019 %   |                      |            |                |
| 17 | acenaphthylene                                                                                                                                                                         |              | 205-917-1  | 208-96-8   | 0.12 mg/kg        |              | 0.12 mg/kg     | 0.000012 %  |                      |            |                |
| 18 | acenaphthene                                                                                                                                                                           |              | 201-469-6  | 83-32-9    | 3.2 mg/kg         |              | 3.2 mg/kg      | 0.00032 %   |                      |            |                |
| 19 | fluorene                                                                                                                                                                               |              | 201-695-5  | 86-73-7    | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %   |                      |            |                |
| 20 | phenanthrene                                                                                                                                                                           |              | 201-581-5  | 85-01-8    | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %    |                      |            |                |
| 21 | anthracene                                                                                                                                                                             |              | 204-371-1  | 120-12-7   | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %   |                      |            |                |
| 22 | fluoranthene                                                                                                                                                                           |              | 205-912-4  | 206-44-0   | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %    |                      |            |                |
| 23 | pyrene                                                                                                                                                                                 |              | 204-927-3  | 129-00-0   | 13 mg/kg          |              | 13 mg/kg       | 0.0013 %    |                      |            |                |
| 24 | benzo[a]anthracene                                                                                                                                                                     | 601-033-00-9 | 200-280-6  | 56-55-3    | 6 mg/kg           |              | 6 mg/kg        | 0.0006 %    |                      |            |                |
| 25 | chrysene                                                                                                                                                                               | 601-048-00-0 | 205-923-4  | 218-01-9   | 6.2 mg/kg         |              | 6.2 mg/kg      | 0.00062 %   |                      |            |                |
| 26 | benzo[b]fluoranthene                                                                                                                                                                   | 601-034-00-4 | 205-911-9  | 205-99-2   | 6.5 mg/kg         |              | 6.5 mg/kg      | 0.00065 %   |                      |            |                |
| 27 | benzo[k]fluoranthene                                                                                                                                                                   | 601-036-00-5 | 205-916-6  | 207-08-9   | 2.3 mg/kg         |              | 2.3 mg/kg      | 0.00023 %   |                      |            |                |
| 28 | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                     | 601-032-00-3 | 200-028-5  | 50-32-8    | 5.5 mg/kg         |              | 5.5 mg/kg      | 0.00055 %   |                      |            |                |
| 29 | indeno[123-cd]pyrene                                                                                                                                                                   |              | 205-893-2  | 193-39-5   | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %   |                      |            |                |

| #      | Determinand           |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|-----------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number   | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene |           |            |          | 0.62 mg/kg        |              | 0.62 mg/kg     | 0.000062 %           |            |                |
|        | 601-041-00-2          | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene    |           |            |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
|        |                       | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                    |           |            |          | 9.3 pH            |              | 9.3 pH         | 9.3 pH               |            |                |
|        |                       |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2          | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                       |           |            |          |                   |              |                | 0.285 %              |            |                |

## 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: CPT22/08

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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>CPT22/08</b>   | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.20 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>12%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 13 mg/kg          | 1.895        | 24.629 mg/kg   | 0.00246 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2 mg/kg           | 5.719        | 11.438 mg/kg   | 0.00114 %   |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.6 mg/kg         | 1.142        | 0.685 mg/kg    | 0.0000685 % |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 23 mg/kg          | 1.462        | 33.616 mg/kg   | 0.00336 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 60 mg/kg          | 1.252        | 75.107 mg/kg   | 0.00751 %   |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 20 mg/kg          | 2.976        | 59.525 mg/kg   | 0.00595 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 140 mg/kg         | 1.245        | 174.26 mg/kg   | 0.0174 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 520 mg/kg         |              | 520 mg/kg      | 0.052 %     |                      |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |             |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.75 mg/kg        |              | 0.75 mg/kg     | 0.000075 %  |                      |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |             |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.2 mg/kg         |              | 0.2 mg/kg      | 0.00002 %   |                      |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.89 mg/kg        |              | 0.89 mg/kg     | 0.000089 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 8.4 mg/kg         |              | 8.4 mg/kg      | 0.00084 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 12 mg/kg          |              | 12 mg/kg       | 0.0012 %             |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 12 mg/kg          |              | 12 mg/kg       | 0.0012 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 6.9 mg/kg         |              | 6.9 mg/kg      | 0.00069 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.9 mg/kg         |              | 1.9 mg/kg      | 0.00019 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 5.9 mg/kg         |              | 5.9 mg/kg      | 0.00059 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.66 mg/kg        |              | 0.66 mg/kg     | 0.000066 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %            |            |                |
| 28     | pH                                 |              | PH         |          | 10.2 pH           |              | 10.2 pH        | 10.2 pH              |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.109 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.052%)

## Classification of sample: CPT22/08[2]


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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/08[2]</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00 m</b>      | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>12%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 15 mg/kg          | 1.895        | 28.418         | mg/kg | 0.00284 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 4 mg/kg           | 5.719        | 22.877         | mg/kg | 0.00229 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 43 mg/kg          | 1.462        | 62.847         | mg/kg | 0.00628 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 70 mg/kg          | 1.252        | 87.624         | mg/kg | 0.00876 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 24 mg/kg          | 2.976        | 71.43          | mg/kg | 0.00714 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 250 mg/kg         | 1.245        | 311.178        | mg/kg | 0.0311 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 2.4 mg/kg         | 1.884        | 4.522          | mg/kg | 0.000452 %           |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 770 mg/kg         |              | 770            | mg/kg | 0.077 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 3.3 mg/kg         |              | 3.3            | mg/kg | 0.00033 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.56 mg/kg        |              | 0.56           | mg/kg | 0.000056 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.91 mg/kg        |              | 0.91 mg/kg     | 0.000091 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 10 mg/kg          |              | 10 mg/kg       | 0.001 %              |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 9.9 mg/kg         |              | 9.9 mg/kg      | 0.00099 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 11 mg/kg          |              | 11 mg/kg       | 0.0011 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 5.9 mg/kg         |              | 5.9 mg/kg      | 0.00059 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 4.1 mg/kg         |              | 4.1 mg/kg      | 0.00041 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 4.7 mg/kg         |              | 4.7 mg/kg      | 0.00047 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.46 mg/kg        |              | 0.46 mg/kg     | 0.000046 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
| 28     | pH                                 |              | PH         |          | 10.2 pH           |              | 10.2 pH        | 10.2 pH              |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.155 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.077%)

Classification of sample: BH22/01[2]

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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/01[2]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>3.8%</b>       |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 3.8% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 5 mg/kg           | 1.895        | 9.473          | mg/kg | 0.000947 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.8 mg/kg         | 5.719        | 10.295         | mg/kg | 0.00103 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 24 mg/kg          | 1.462        | 35.077         | mg/kg | 0.00351 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 20 mg/kg          | 1.252        | 25.036         | mg/kg | 0.0025 %             |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 52 mg/kg          |              | 52             | mg/kg | 0.0052 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 11 mg/kg          | 2.976        | 32.739         | mg/kg | 0.00327 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 65 mg/kg          | 1.245        | 80.906         | mg/kg | 0.00809 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 300 mg/kg         |              | 300            | mg/kg | 0.03 %               |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | <0.05 mg/kg       |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.45 mg/kg        |              | 0.45 mg/kg     | 0.000045 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.71 mg/kg        |              | 0.71 mg/kg     | 0.000071 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 3.7 mg/kg         |              | 3.7 mg/kg      | 0.00037 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.77 mg/kg        |              | 0.77 mg/kg     | 0.000077 %           |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 0.91 mg/kg        |              | 0.91 mg/kg     | 0.000091 %           |            |                |
| 28     | pH                                 |              | PH         |          | 11.2 pH           |              | 11.2 pH        | 11.2 pH              |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0569 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.03%)

Classification of sample: BH22/01[3]

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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/01[3]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>17%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 17% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | 0.002 mg/kg       |              | 0.002 mg/kg    | 0.0000002 %          |            |                |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 23 mg/kg          | 1.895        | 43.574 mg/kg   | 0.00436 %            |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 2.8 mg/kg         | 5.719        | 16.014 mg/kg   | 0.0016 %             |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | 0.9 mg/kg         | 1.142        | 1.028 mg/kg    | 0.000103 %           |            |                |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 36 mg/kg          | 1.462        | 52.616 mg/kg   | 0.00526 %            |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 180 mg/kg         | 1.252        | 225.32 mg/kg   | 0.0225 %             |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 120 mg/kg         |              | 120 mg/kg      | 0.012 %              |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 41 mg/kg          | 2.976        | 122.027 mg/kg  | 0.0122 %             |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 290 mg/kg         | 1.245        | 360.967 mg/kg  | 0.0361 %             |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | benzene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-020-00-8                                             | 200-753-7 | 71-43-2    |          |                   |              |                |                      |            |                |
| 13     | toluene                                                  |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-021-00-3                                             | 203-625-9 | 108-88-3   |          |                   |              |                |                      |            |                |
| 14     | ethylbenzene                                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 601-023-00-4                                             | 202-849-4 | 100-41-4   |          |                   |              |                |                      |            |                |
| 15     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 16     | TPH (C6 to C40) petroleum group                          |           |            |          | 380 mg/kg         |              | 380 mg/kg      | 0.038 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 17     | naphthalene                                              |           |            |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 18     | acenaphthylene                                           |           |            |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 19     | acenaphthene                                             |           |            |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 20     | fluorene                                                 |           |            |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 21     | phenanthrene                                             |           |            |          | 17 mg/kg          |              | 17 mg/kg       | 0.0017 %             |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 22     | anthracene                                               |           |            |          | 4.5 mg/kg         |              | 4.5 mg/kg      | 0.00045 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 23     | fluoranthene                                             |           |            |          | 21 mg/kg          |              | 21 mg/kg       | 0.0021 %             |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 24     | pyrene                                                   |           |            |          | 20 mg/kg          |              | 20 mg/kg       | 0.002 %              |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]anthracene                                       |           |            |          | 11 mg/kg          |              | 11 mg/kg       | 0.0011 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 26     | chrysene                                                 |           |            |          | 8.9 mg/kg         |              | 8.9 mg/kg      | 0.00089 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 27     | benzo[b]fluoranthene                                     |           |            |          | 9.9 mg/kg         |              | 9.9 mg/kg      | 0.00099 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 28     | benzo[k]fluoranthene                                     |           |            |          | 4 mg/kg           |              | 4 mg/kg        | 0.0004 %             |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 29     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 9.3 mg/kg         |              | 9.3 mg/kg      | 0.00093 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 30     | indeno[123-cd]pyrene                                     |           |            |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 31     | dibenz[a,h]anthracene                                    |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 32     | benzo[ghi]perylene                                       |           |            |          | 4.9 mg/kg         |              | 4.9 mg/kg      | 0.00049 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 33     | pH                                                       |           |            |          | 9.1 pH            |              | 9.1 pH         | 9.1 pH               |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 34     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| 35     | carbon tetrachloride; tetrachloromethane                 |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 602-008-00-5                                             | 200-262-8 | 56-23-5    |          |                   |              |                |                      |            |                |
| 36     | vinyl chloride; chloroethylene                           |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 602-023-00-7                                             | 200-831-0 | 75-01-4    |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.146 %              |            |                |

## 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 Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.038%)

## Classification of sample: CPT22/01



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>CPT22/01</b>   | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.25 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>1.7%</b>       |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 1.7% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 1.3 mg/kg         | 1.895        | 2.463 mg/kg    | 0.000246 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.4 mg/kg         | 5.719        | 2.288 mg/kg    | 0.000229 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.5 mg/kg         | 1.142        | 0.571 mg/kg    | 0.0000571 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 5.9 mg/kg         | 1.462        | 8.623 mg/kg    | 0.000862 %           |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 4.8 mg/kg         | 1.252        | 6.009 mg/kg    | 0.000601 %           |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 3.9 mg/kg         |              | 3.9 mg/kg      | 0.00039 %            |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 1.5 mg/kg         | 2.976        | 4.464 mg/kg    | 0.000446 %           |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 17 mg/kg          | 1.245        | 21.16 mg/kg    | 0.00212 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 42 mg/kg          |              | 42 mg/kg       | 0.0042 %             |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |             |                      |            |                |
| 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    |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %   |                      |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %  |                      |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
| 28     | pH                                 |              | PH         |          | 9.3 pH            |              | 9.3 pH         | 9.3 pH      |                      |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %   |                      |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                |             | 0.00956 %            |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0042%)

**Classification of sample: CPT22/01[2]**

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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/01[2]</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00 m</b>      | Entry:                                                                                    |
| Moisture content:  | 17 05 03 * (Soil and stones containing hazardous substances)                              |
| <b>12%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

**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.: 0.1%)

**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.: 0.1%)

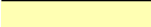
**Determinands**

Moisture content: **12% No Moisture Correction applied (MC)**

| # | Determinand                                                                                          |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |            | Classification value | MC Applied | Conc. Not Used |
|---|------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|------------|----------------------|------------|----------------|
|   | EU CLP index number                                                                                  | EC Number                      | CAS Number                       |          |                   |              |                |            |                      |            |                |
| 1 | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex } |                                |                                  |          | 27 mg/kg          | 1.895        | 51.152 mg/kg   | 0.00512 %  |                      |            |                |
|   | 033-005-00-1                                                                                         |                                |                                  |          |                   |              |                |            |                      |            |                |
| 2 | boron { boric acid; [1] boric acid [2] }                                                             |                                |                                  |          | 2.6 mg/kg         | 5.719        | 14.87 mg/kg    | 0.00149 %  |                      |            |                |
|   | 005-007-00-2                                                                                         | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |            |                      |            |                |
| 3 | cadmium { cadmium oxide }                                                                            |                                |                                  |          | 1.7 mg/kg         | 1.142        | 1.942 mg/kg    | 0.000194 % |                      |            |                |
|   | 048-002-00-0                                                                                         | 215-146-2                      | 1306-19-0                        |          |                   |              |                |            |                      |            |                |
| 4 | chromium { chromium(III) oxide }                                                                     |                                |                                  |          | 32 mg/kg          | 1.462        | 46.77 mg/kg    | 0.00468 %  |                      |            |                |
|   |                                                                                                      | 215-160-9                      | 1308-38-9                        |          |                   |              |                |            |                      |            |                |
| 5 | copper { copper(II) oxide }                                                                          |                                |                                  |          | 140 mg/kg         | 1.252        | 175.249 mg/kg  | 0.0175 %   |                      |            |                |
|   | 029-016-00-6                                                                                         | 215-269-1                      | 1317-38-0                        |          |                   |              |                |            |                      |            |                |
| 6 | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }   |                                |                                  | 1        | 110 mg/kg         |              | 110 mg/kg      | 0.011 %    |                      |            |                |
|   | 082-001-00-6                                                                                         |                                |                                  |          |                   |              |                |            |                      |            |                |

| #      | Determinand                                                                                                                                                                            |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. |  | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|--|----------------------|------------|----------------|
|        | EU CLP index number                                                                                                                                                                    | EC Number | CAS Number |          |                   |              |                |  |                      |            |                |
| 7      | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |           |            | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     |  | <0.00003 %           |            | <LOD           |
|        | 080-002-00-6                                                                                                                                                                           |           |            |          |                   |              |                |  |                      |            |                |
| 8      | nickel { nickel chromate }                                                                                                                                                             |           |            |          | 37 mg/kg          | 2.976        | 110.122 mg/kg  |  | 0.011 %              |            |                |
|        | 028-035-00-7                                                                                                                                                                           | 238-766-5 | 14721-18-7 |          |                   |              |                |  |                      |            |                |
| 9      | zinc { zinc oxide }                                                                                                                                                                    |           |            |          | 310 mg/kg         | 1.245        | 385.861 mg/kg  |  | 0.0386 %             |            |                |
|        | 030-013-00-7                                                                                                                                                                           | 215-222-5 | 1314-13-2  |          |                   |              |                |  |                      |            |                |
| 10     | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |           |            |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   |  | <0.000188 %          |            | <LOD           |
|        | 006-007-00-5                                                                                                                                                                           |           |            |          |                   |              |                |  |                      |            |                |
| 11     | TPH (C6 to C40) petroleum group                                                                                                                                                        |           |            |          | 1000 mg/kg        |              | 1000 mg/kg     |  | 0.1 %                |            |                |
|        |                                                                                                                                                                                        |           | TPH        |          |                   |              |                |  |                      |            |                |
| 12     | naphthalene                                                                                                                                                                            |           |            |          | 9.8 mg/kg         |              | 9.8 mg/kg      |  | 0.00098 %            |            |                |
|        | 601-052-00-2                                                                                                                                                                           | 202-049-5 | 91-20-3    |          |                   |              |                |  |                      |            |                |
| 13     | acenaphthylene                                                                                                                                                                         |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      |  | 0.00015 %            |            |                |
|        |                                                                                                                                                                                        | 205-917-1 | 208-96-8   |          |                   |              |                |  |                      |            |                |
| 14     | acenaphthene                                                                                                                                                                           |           |            |          | 6.6 mg/kg         |              | 6.6 mg/kg      |  | 0.00066 %            |            |                |
|        |                                                                                                                                                                                        | 201-469-6 | 83-32-9    |          |                   |              |                |  |                      |            |                |
| 15     | fluorene                                                                                                                                                                               |           |            |          | 7.8 mg/kg         |              | 7.8 mg/kg      |  | 0.00078 %            |            |                |
|        |                                                                                                                                                                                        | 201-695-5 | 86-73-7    |          |                   |              |                |  |                      |            |                |
| 16     | phenanthrene                                                                                                                                                                           |           |            |          | 37 mg/kg          |              | 37 mg/kg       |  | 0.0037 %             |            |                |
|        |                                                                                                                                                                                        | 201-581-5 | 85-01-8    |          |                   |              |                |  |                      |            |                |
| 17     | anthracene                                                                                                                                                                             |           |            |          | 12 mg/kg          |              | 12 mg/kg       |  | 0.0012 %             |            |                |
|        |                                                                                                                                                                                        | 204-371-1 | 120-12-7   |          |                   |              |                |  |                      |            |                |
| 18     | fluoranthene                                                                                                                                                                           |           |            |          | 35 mg/kg          |              | 35 mg/kg       |  | 0.0035 %             |            |                |
|        |                                                                                                                                                                                        | 205-912-4 | 206-44-0   |          |                   |              |                |  |                      |            |                |
| 19     | pyrene                                                                                                                                                                                 |           |            |          | 37 mg/kg          |              | 37 mg/kg       |  | 0.0037 %             |            |                |
|        |                                                                                                                                                                                        | 204-927-3 | 129-00-0   |          |                   |              |                |  |                      |            |                |
| 20     | benzo[a]anthracene                                                                                                                                                                     |           |            |          | 18 mg/kg          |              | 18 mg/kg       |  | 0.0018 %             |            |                |
|        | 601-033-00-9                                                                                                                                                                           | 200-280-6 | 56-55-3    |          |                   |              |                |  |                      |            |                |
| 21     | chrysene                                                                                                                                                                               |           |            |          | 15 mg/kg          |              | 15 mg/kg       |  | 0.0015 %             |            |                |
|        | 601-048-00-0                                                                                                                                                                           | 205-923-4 | 218-01-9   |          |                   |              |                |  |                      |            |                |
| 22     | benzo[b]fluoranthene                                                                                                                                                                   |           |            |          | 15 mg/kg          |              | 15 mg/kg       |  | 0.0015 %             |            |                |
|        | 601-034-00-4                                                                                                                                                                           | 205-911-9 | 205-99-2   |          |                   |              |                |  |                      |            |                |
| 23     | benzo[k]fluoranthene                                                                                                                                                                   |           |            |          | 7.3 mg/kg         |              | 7.3 mg/kg      |  | 0.00073 %            |            |                |
|        | 601-036-00-5                                                                                                                                                                           | 205-916-6 | 207-08-9   |          |                   |              |                |  |                      |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene                                                                                                                                                     |           |            |          | 15 mg/kg          |              | 15 mg/kg       |  | 0.0015 %             |            |                |
|        | 601-032-00-3                                                                                                                                                                           | 200-028-5 | 50-32-8    |          |                   |              |                |  |                      |            |                |
| 25     | indeno[123-cd]pyrene                                                                                                                                                                   |           |            |          | 6.7 mg/kg         |              | 6.7 mg/kg      |  | 0.00067 %            |            |                |
|        |                                                                                                                                                                                        | 205-893-2 | 193-39-5   |          |                   |              |                |  |                      |            |                |
| 26     | dibenz[a,h]anthracene                                                                                                                                                                  |           |            |          | 1.7 mg/kg         |              | 1.7 mg/kg      |  | 0.00017 %            |            |                |
|        | 601-041-00-2                                                                                                                                                                           | 200-181-8 | 53-70-3    |          |                   |              |                |  |                      |            |                |
| 27     | benzo[ghi]perylene                                                                                                                                                                     |           |            |          | 7.7 mg/kg         |              | 7.7 mg/kg      |  | 0.00077 %            |            |                |
|        |                                                                                                                                                                                        | 205-883-8 | 191-24-2   |          |                   |              |                |  |                      |            |                |
| 28     | pH                                                                                                                                                                                     |           |            |          | 9.6 pH            |              | 9.6 pH         |  | 9.6 pH               |            |                |
|        |                                                                                                                                                                                        |           | PH         |          |                   |              |                |  |                      |            |                |
| 29     | phenol                                                                                                                                                                                 |           |            |          | <1 mg/kg          |              | <1 mg/kg       |  | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                                                                                                                                                           | 203-632-7 | 108-95-2   |          |                   |              |                |  |                      |            |                |
| Total: |                                                                                                                                                                                        |           |            |          |                   |              |                |  | 0.213 %              |            |                |

## 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 |
| <b>&lt;LOD</b>                                                                    | Below limit of detection                                                                                                        |
| <b>ND</b>                                                                         | Not detected                                                                                                                    |
| CLP: Note 1                                                                       | Only the metal concentration has been used for classification                                                                   |

## Supplementary Hazardous Property Information

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

**Force this Hazardous property to non hazardous because** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.1%)

## Classification of sample: CPT22/03

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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>CPT22/03</b>   | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.35 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>13%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 13% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 5.2               | mg/kg | 1.895        | 9.852          | mg/kg | 0.000985 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.7               | mg/kg | 5.719        | 4.003          | mg/kg | 0.0004 %             |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2              | mg/kg | 1.142        | <0.228         | mg/kg | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 24                | mg/kg | 1.462        | 35.077         | mg/kg | 0.00351 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 21                | mg/kg | 1.252        | 26.287         | mg/kg | 0.00263 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 11                | mg/kg |              | 11             | mg/kg | 0.0011 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 29                | mg/kg | 2.976        | 86.312         | mg/kg | 0.00863 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 53                | mg/kg | 1.245        | 65.97          | mg/kg | 0.0066 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 17                | mg/kg |              | 17             | mg/kg | 0.0017 %             |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 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    |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 0.19 mg/kg        |              | 0.19 mg/kg     | 0.000019 %           |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 28     | pH                                 |              | PH         |          | 8.8 pH            |              | 8.8 pH         | 8.8 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.026 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0017%)

## Classification of sample: CPT22/04


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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>CPT22/04</b>   | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.25 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>1.3%</b>       |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 1.3% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | <1 mg/kg          | 1.895        | <1.895         | mg/kg | <0.000189 %          |            | <LOD           |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | <0.2 mg/kg        | 5.719        | <1.144         | mg/kg | <0.000114 %          |            | <LOD           |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 4 mg/kg           | 1.462        | 5.846          | mg/kg | 0.000585 %           |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 4.7 mg/kg         | 1.252        | 5.883          | mg/kg | 0.000588 %           |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 4.5 mg/kg         |              | 4.5            | mg/kg | 0.00045 %            |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 1.3 mg/kg         | 2.976        | 3.869          | mg/kg | 0.000387 %           |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 11 mg/kg          | 1.245        | 13.692         | mg/kg | 0.00137 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | <10 mg/kg         |              | <10            | mg/kg | <0.001 %             |            | <LOD           |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | <0.05 mg/kg       |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 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    |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 28     | pH                                 |              | PH         |          | 9.6 pH            |              | 9.6 pH         | 9.6 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.00514 %            |            |                |

## 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: CPT22/04[2]


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

**Sample details**

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/04[2]</b> | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00 m</b>      | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>15%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 15% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 7.2               | mg/kg | 1.895        | 13.641         | mg/kg | 0.00136 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.6               | mg/kg | 5.719        | 9.151          | mg/kg | 0.000915 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 15                | mg/kg | 1.462        | 21.923         | mg/kg | 0.00219 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 42                | mg/kg | 1.252        | 52.575         | mg/kg | 0.00526 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 91                | mg/kg |              | 91             | mg/kg | 0.0091 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 16                | mg/kg | 2.976        | 47.62          | mg/kg | 0.00476 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 110               | mg/kg | 1.245        | 136.919        | mg/kg | 0.0137 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1                | mg/kg |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |       |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1                | mg/kg |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |       |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1                | mg/kg |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 470 mg/kg         |              | 470 mg/kg      | 0.047 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.84 mg/kg        |              | 0.84 mg/kg     | 0.000084 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.63 mg/kg        |              | 0.63 mg/kg     | 0.000063 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 5.4 mg/kg         |              | 5.4 mg/kg      | 0.00054 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 7.9 mg/kg         |              | 7.9 mg/kg      | 0.00079 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 7.4 mg/kg         |              | 7.4 mg/kg      | 0.00074 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 3 mg/kg           |              | 3 mg/kg        | 0.0003 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 3 mg/kg           |              | 3 mg/kg        | 0.0003 %             |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.26 mg/kg        |              | 0.26 mg/kg     | 0.000026 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 10.7 pH           |              | 10.7 pH        | 10.7 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0892 %             |            |                |

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

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Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.047%)

## Classification of sample: CPT22/02



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/02</b>    | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.45-0.60 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>12%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 7.9 mg/kg         | 1.895        | 14.967 mg/kg   | 0.0015 %             |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.6 mg/kg         | 5.719        | 14.87 mg/kg    | 0.00149 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.5 mg/kg         | 1.142        | 0.571 mg/kg    | 0.0000571 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 26 mg/kg          | 1.462        | 38 mg/kg       | 0.0038 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 85 mg/kg          | 1.252        | 106.401 mg/kg  | 0.0106 %             |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 93 mg/kg          |              | 93 mg/kg       | 0.0093 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 14 mg/kg          | 2.976        | 41.668 mg/kg   | 0.00417 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 110 mg/kg         | 1.245        | 136.919 mg/kg  | 0.0137 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 440 mg/kg         |              | 440 mg/kg      | 0.044 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.08 mg/kg        |              | 0.08 mg/kg     | 0.000008 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.29 mg/kg        |              | 0.29 mg/kg     | 0.000029 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.3 mg/kg         |              | 0.3 mg/kg      | 0.00003 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.82 mg/kg        |              | 0.82 mg/kg     | 0.000082 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 5.5 mg/kg         |              | 5.5 mg/kg      | 0.00055 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.96 mg/kg        |              | 0.96 mg/kg     | 0.000096 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 11.2 pH           |              | 11.2 pH        | 11.2 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| 34     | carbon tetrachloride; tetrachloromethane                 |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 602-008-00-5                                             | 200-262-8 | 56-23-5    |          |                   |              |                |                      |            |                |
| 35     | vinyl chloride; chloroethylene                           |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 602-023-00-7                                             | 200-831-0 | 75-01-4    |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0923 %             |            |                |

## 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 Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.044%)

## Classification of sample: CPT22/05

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/05</b>    | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.15-0.35 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>3.4%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 3.4% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 1.7               | mg/kg | 1.895        | 3.221          | mg/kg | 0.000322 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.3               | mg/kg | 5.719        | 1.716          | mg/kg | 0.000172 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.6               | mg/kg | 1.142        | 0.685          | mg/kg | 0.0000685 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 6.6               | mg/kg | 1.462        | 9.646          | mg/kg | 0.000965 %           |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 6.8               | mg/kg | 1.252        | 8.512          | mg/kg | 0.000851 %           |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 6.6               | mg/kg |              | 6.6            | mg/kg | 0.00066 %            |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 2.8               | mg/kg | 2.976        | 8.334          | mg/kg | 0.000833 %           |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 26                | mg/kg | 1.245        | 32.363         | mg/kg | 0.00324 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 120               | mg/kg |              | 120            | mg/kg | 0.012 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.1               | mg/kg |              | 0.1            | mg/kg | 0.00001 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.14 mg/kg        |              | 0.14 mg/kg     | 0.000014 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 0.62 mg/kg        |              | 0.62 mg/kg     | 0.000062 %           |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.15 mg/kg        |              | 0.15 mg/kg     | 0.000015 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 0.53 mg/kg        |              | 0.53 mg/kg     | 0.000053 %           |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 0.51 mg/kg        |              | 0.51 mg/kg     | 0.000051 %           |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 0.2 mg/kg         |              | 0.2 mg/kg      | 0.00002 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 0.19 mg/kg        |              | 0.19 mg/kg     | 0.000019 %           |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 0.23 mg/kg        |              | 0.23 mg/kg     | 0.000023 %           |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
| 28     | pH                                 |              | PH         |          | 9.5 pH            |              | 9.5 pH         | 9.5 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| 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                                                                   |

## Supplementary Hazardous Property Information

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

**Force this Hazardous property to non hazardous because** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.012%)

## Classification of sample: CPT22/06

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/06</b>    | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50-0.70 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>9.8%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 9.8% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 15 mg/kg          | 1.895        | 28.418 mg/kg   | 0.00284 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.8 mg/kg         | 5.719        | 10.295 mg/kg   | 0.00103 %   |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.9 mg/kg         | 1.142        | 2.17 mg/kg     | 0.000217 %  |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 49 mg/kg          | 1.462        | 71.616 mg/kg   | 0.00716 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 180 mg/kg         | 1.252        | 225.32 mg/kg   | 0.0225 %    |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 150 mg/kg         |              | 150 mg/kg      | 0.015 %     |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | 0.3 mg/kg         |              | 0.3 mg/kg      | 0.00003 %   |                      |            |                |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 22 mg/kg          | 2.976        | 65.478 mg/kg   | 0.00655 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 340 mg/kg         | 1.245        | 423.203 mg/kg  | 0.0423 %    |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 500 mg/kg         |              | 500 mg/kg      | 0.05 %      |                      |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |             |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 4.1 mg/kg         |              | 4.1 mg/kg      | 0.00041 %   |                      |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |             |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %  |                      |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 3.9 mg/kg         |              | 3.9 mg/kg      | 0.00039 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 16 mg/kg          |              | 16 mg/kg       | 0.0016 %             |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 4.3 mg/kg         |              | 4.3 mg/kg      | 0.00043 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 17 mg/kg          |              | 17 mg/kg       | 0.0017 %             |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 6.9 mg/kg         |              | 6.9 mg/kg      | 0.00069 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 6.5 mg/kg         |              | 6.5 mg/kg      | 0.00065 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 7.8 mg/kg         |              | 7.8 mg/kg      | 0.00078 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 6.2 mg/kg         |              | 6.2 mg/kg      | 0.00062 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.62 mg/kg        |              | 0.62 mg/kg     | 0.000062 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
| 28     | pH                                 |              | PH         |          | 10.8 pH           |              | 10.8 pH        | 10.8 pH              |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.158 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.05%)

## Classification of sample: CPT22/07

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>CPT22/07</b>    | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.30-0.50 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>7.2%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 7.2% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 11 mg/kg          | 1.895        | 20.84          | mg/kg | 0.00208 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.3 mg/kg         | 5.719        | 13.154         | mg/kg | 0.00132 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.8 mg/kg         | 1.142        | 0.914          | mg/kg | 0.0000914 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 39 mg/kg          | 1.462        | 57.001         | mg/kg | 0.0057 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 80 mg/kg          | 1.252        | 100.142        | mg/kg | 0.01 %               |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 130 mg/kg         |              | 130            | mg/kg | 0.013 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 19 mg/kg          | 2.976        | 56.549         | mg/kg | 0.00565 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 190 mg/kg         | 1.245        | 236.496        | mg/kg | 0.0236 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 370 mg/kg         |              | 370            | mg/kg | 0.037 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 3 mg/kg           |              | 3              | mg/kg | 0.0003 %             |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.15 mg/kg        |              | 0.15           | mg/kg | 0.000015 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 2.3 mg/kg         |              | 2.3 mg/kg      | 0.00023 %            |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 4 mg/kg           |              | 4 mg/kg        | 0.0004 %             |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 16 mg/kg          |              | 16 mg/kg       | 0.0016 %             |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 6.4 mg/kg         |              | 6.4 mg/kg      | 0.00064 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 6.1 mg/kg         |              | 6.1 mg/kg      | 0.00061 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 3.7 mg/kg         |              | 3.7 mg/kg      | 0.00037 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 5.7 mg/kg         |              | 5.7 mg/kg      | 0.00057 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 2.5 mg/kg         |              | 2.5 mg/kg      | 0.00025 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.58 mg/kg        |              | 0.58 mg/kg     | 0.000058 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
| 28     | pH                                 |              | PH         |          | 11.1 pH           |              | 11.1 pH        | 11.1 pH              |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.108 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.037%)

## Classification of sample: BH22/05

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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/05</b>    | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>6.5%</b>       |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 6.5% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 8.6               | mg/kg | 1.895        | 16.293         | mg/kg | 0.00163 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.5               | mg/kg | 5.719        | 8.579          | mg/kg | 0.000858 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.5               | mg/kg | 1.142        | 1.713          | mg/kg | 0.000171 %           |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 19                | mg/kg | 1.462        | 27.77          | mg/kg | 0.00278 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 69                | mg/kg | 1.252        | 86.373         | mg/kg | 0.00864 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 100               | mg/kg |              | 100            | mg/kg | 0.01 %               |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 13                | mg/kg | 2.976        | 38.691         | mg/kg | 0.00387 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 250               | mg/kg | 1.245        | 311.178        | mg/kg | 0.0311 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 410               | mg/kg |              | 410            | mg/kg | 0.041 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.19              | mg/kg |              | 0.19           | mg/kg | 0.000019 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.27 mg/kg        |              | 0.27 mg/kg     | 0.000027 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.24 mg/kg        |              | 0.24 mg/kg     | 0.000024 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.63 mg/kg        |              | 0.63 mg/kg     | 0.000063 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 4.1 mg/kg         |              | 4.1 mg/kg      | 0.00041 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 1.9 mg/kg         |              | 1.9 mg/kg      | 0.00019 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 1.9 mg/kg         |              | 1.9 mg/kg      | 0.00019 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.92 mg/kg        |              | 0.92 mg/kg     | 0.000092 %           |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 0.93 mg/kg        |              | 0.93 mg/kg     | 0.000093 %           |            |                |
| 28     | pH                                 |              | PH         |          | 9.8 pH            |              | 9.8 pH         | 9.8 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.103 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.041%)

Classification of sample: BH22/04[5]

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/04[5]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.50-0.70 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>12%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | 0.002 mg/kg       |              | 0.002 mg/kg    | 0.0000002 %          |            |                |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 26 mg/kg          | 1.895        | 49.258 mg/kg   | 0.00493 %            |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 2 mg/kg           | 5.719        | 11.438 mg/kg   | 0.00114 %            |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | 2.2 mg/kg         | 1.142        | 2.513 mg/kg    | 0.000251 %           |            |                |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 33 mg/kg          | 1.462        | 48.231 mg/kg   | 0.00482 %            |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 140 mg/kg         | 1.252        | 175.249 mg/kg  | 0.0175 %             |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 420 mg/kg         |              | 420 mg/kg      | 0.042 %              |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 27 mg/kg          | 2.976        | 80.359 mg/kg   | 0.00804 %            |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 1100 mg/kg        | 1.245        | 1369.185 mg/kg | 0.137 %              |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |

| #      | Determinand                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | TPH (C6 to C40) petroleum group    |           |            |          | 950 mg/kg         |              | 950 mg/kg      | 0.095 %              |            |                |
|        |                                    |           | TPH        |          |                   |              |                |                      |            |                |
| 13     | naphthalene                        |           |            |          | 0.62 mg/kg        |              | 0.62 mg/kg     | 0.000062 %           |            |                |
|        | 601-052-00-2                       | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 14     | acenaphthylene                     |           |            |          | 0.21 mg/kg        |              | 0.21 mg/kg     | 0.000021 %           |            |                |
|        |                                    | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 15     | acenaphthene                       |           |            |          | 0.99 mg/kg        |              | 0.99 mg/kg     | 0.000099 %           |            |                |
|        |                                    | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 16     | fluorene                           |           |            |          | 0.84 mg/kg        |              | 0.84 mg/kg     | 0.000084 %           |            |                |
|        |                                    | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 17     | phenanthrene                       |           |            |          | 7.7 mg/kg         |              | 7.7 mg/kg      | 0.00077 %            |            |                |
|        |                                    | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 18     | anthracene                         |           |            |          | 2.6 mg/kg         |              | 2.6 mg/kg      | 0.00026 %            |            |                |
|        |                                    | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 19     | fluoranthene                       |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        |                                    | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 20     | pyrene                             |           |            |          | 15 mg/kg          |              | 15 mg/kg       | 0.0015 %             |            |                |
|        |                                    | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 21     | benzo[a]anthracene                 |           |            |          | 6.4 mg/kg         |              | 6.4 mg/kg      | 0.00064 %            |            |                |
|        | 601-033-00-9                       | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 22     | chrysene                           |           |            |          | 7 mg/kg           |              | 7 mg/kg        | 0.0007 %             |            |                |
|        | 601-048-00-0                       | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 23     | benzo[b]fluoranthene               |           |            |          | 7.2 mg/kg         |              | 7.2 mg/kg      | 0.00072 %            |            |                |
|        | 601-034-00-4                       | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 24     | benzo[k]fluoranthene               |           |            |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
|        | 601-036-00-5                       | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]pyrene; benzo[def]chrysene |           |            |          | 6.8 mg/kg         |              | 6.8 mg/kg      | 0.00068 %            |            |                |
|        | 601-032-00-3                       | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 26     | indeno[123-cd]pyrene               |           |            |          | 3.3 mg/kg         |              | 3.3 mg/kg      | 0.00033 %            |            |                |
|        |                                    | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 27     | dibenz[a,h]anthracene              |           |            |          | 0.6 mg/kg         |              | 0.6 mg/kg      | 0.00006 %            |            |                |
|        | 601-041-00-2                       | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 28     | benzo[ghi]perylene                 |           |            |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
|        |                                    | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 29     | pH                                 |           |            |          | 10.3 pH           |              | 10.3 pH        | 10.3 pH              |            |                |
|        |                                    |           | PH         |          |                   |              |                |                      |            |                |
| 30     | phenol                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                       | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                    |           |            |          |                   |              |                | 0.319 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.095%)

## Classification of sample: BH22/03



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/03</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.90-1.10 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>11%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: **11% No Moisture Correction applied (MC)**

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 6 mg/kg           | 1.895        | 11.367 mg/kg   | 0.00114 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.7 mg/kg         | 5.719        | 4.003 mg/kg    | 0.0004 %             |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2 mg/kg        | 1.142        | <0.228 mg/kg   | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 21 mg/kg          | 1.462        | 30.693 mg/kg   | 0.00307 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 24 mg/kg          | 1.252        | 30.043 mg/kg   | 0.003 %              |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 17 mg/kg          |              | 17 mg/kg       | 0.0017 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 26 mg/kg          | 2.976        | 77.383 mg/kg   | 0.00774 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 61 mg/kg          | 1.245        | 75.928 mg/kg   | 0.00759 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 27 mg/kg          |              | 27 mg/kg       | 0.0027 %             |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 0.11 mg/kg        |              | 0.11 mg/kg     | 0.000011 %           |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 0.12 mg/kg        |              | 0.12 mg/kg     | 0.000012 %           |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 0.56 mg/kg        |              | 0.56 mg/kg     | 0.000056 %           |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %           |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 0.72 mg/kg        |              | 0.72 mg/kg     | 0.000072 %           |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 0.67 mg/kg        |              | 0.67 mg/kg     | 0.000067 %           |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 0.36 mg/kg        |              | 0.36 mg/kg     | 0.000036 %           |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 0.3 mg/kg         |              | 0.3 mg/kg      | 0.00003 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 0.34 mg/kg        |              | 0.34 mg/kg     | 0.000034 %           |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 0.32 mg/kg        |              | 0.32 mg/kg     | 0.000032 %           |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 0.16 mg/kg        |              | 0.16 mg/kg     | 0.000016 %           |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 0.2 mg/kg         |              | 0.2 mg/kg      | 0.00002 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 8.9 pH            |              | 8.9 pH         | 8.9 pH               |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0285 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

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Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.0027%)

Classification of sample: BH22/02

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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/02</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.90-1.10 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>6.5%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 6.5% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                                            |                                |                                                                                                 | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                                    | EC Number                      | CAS Number                                                                                      |          |                   |              |                |                      |            |                |
| 1  | asbestos<br>650-013-00-6                                                                                                                                                                               | -----                          | 12001-28-4<br>132207-32-0<br>12172-73-5<br>77536-66-4<br>77536-68-6<br>77536-67-5<br>12001-29-5 |          | 0.001 mg/kg       |              | 0.001 mg/kg    | 0.0000001 %          |            |                |
| 2  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }<br>033-005-00-1                                                                                   |                                |                                                                                                 |          | 4.9 mg/kg         | 1.895        | 9.283 mg/kg    | 0.000928 %           |            |                |
| 3  | boron { boric acid; [1] boric acid [2] }<br>005-007-00-2                                                                                                                                               | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2]                                                                |          | 1.2 mg/kg         | 5.719        | 6.863 mg/kg    | 0.000686 %           |            |                |
| 4  | cadmium { cadmium oxide }<br>048-002-00-0                                                                                                                                                              | 215-146-2                      | 1306-19-0                                                                                       |          | 0.4 mg/kg         | 1.142        | 0.457 mg/kg    | 0.0000457 %          |            |                |
| 5  | chromium { chromium(III) oxide }<br>215-160-9                                                                                                                                                          |                                | 1308-38-9                                                                                       |          | 18 mg/kg          | 1.462        | 26.308 mg/kg   | 0.00263 %            |            |                |
| 6  | copper { copper(II) oxide }<br>029-016-00-6                                                                                                                                                            | 215-269-1                      | 1317-38-0                                                                                       |          | 38 mg/kg          | 1.252        | 47.568 mg/kg   | 0.00476 %            |            |                |
| 7  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }<br>082-001-00-6                                                                                     |                                |                                                                                                 | 1        | 50 mg/kg          |              | 50 mg/kg       | 0.005 %              |            |                |
| 8  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }<br>080-002-00-6                                                         |                                |                                                                                                 | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
| 9  | nickel { nickel chromate }<br>028-035-00-7                                                                                                                                                             | 238-766-5                      | 14721-18-7                                                                                      |          | 8.1 mg/kg         | 2.976        | 24.108 mg/kg   | 0.00241 %            |            |                |
| 10 | zinc { zinc oxide }<br>030-013-00-7                                                                                                                                                                    | 215-222-5                      | 1314-13-2                                                                                       |          | 54 mg/kg          | 1.245        | 67.215 mg/kg   | 0.00672 %            |            |                |
| 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 }<br>006-007-00-5 |                                |                                                                                                 |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |

| #      | Determinand                        |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 12     | TPH (C6 to C40) petroleum group    |           |            |          | 240 mg/kg         |              | 240 mg/kg      | 0.024 %              |            |                |
|        |                                    |           | TPH        |          |                   |              |                |                      |            |                |
| 13     | naphthalene                        |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        | 601-052-00-2                       | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 14     | acenaphthylene                     |           |            |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|        |                                    | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 15     | acenaphthene                       |           |            |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %           |            |                |
|        |                                    | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 16     | fluorene                           |           |            |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
|        |                                    | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 17     | phenanthrene                       |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
|        |                                    | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 18     | anthracene                         |           |            |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
|        |                                    | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 19     | fluoranthene                       |           |            |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
|        |                                    | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 20     | pyrene                             |           |            |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
|        |                                    | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 21     | benzo[a]anthracene                 |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        | 601-033-00-9                       | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 22     | chrysene                           |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        | 601-048-00-0                       | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 23     | benzo[b]fluoranthene               |           |            |          | 1.6 mg/kg         |              | 1.6 mg/kg      | 0.00016 %            |            |                |
|        | 601-034-00-4                       | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 24     | benzo[k]fluoranthene               |           |            |          | 0.45 mg/kg        |              | 0.45 mg/kg     | 0.000045 %           |            |                |
|        | 601-036-00-5                       | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 25     | benzo[a]pyrene; benzo[def]chrysene |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        | 601-032-00-3                       | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 26     | indeno[123-cd]pyrene               |           |            |          | 0.65 mg/kg        |              | 0.65 mg/kg     | 0.000065 %           |            |                |
|        |                                    | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 27     | dibenz[a,h]anthracene              |           |            |          | 0.1 mg/kg         |              | 0.1 mg/kg      | 0.00001 %            |            |                |
|        | 601-041-00-2                       | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 28     | benzo[ghi]perylene                 |           |            |          | 0.73 mg/kg        |              | 0.73 mg/kg     | 0.000073 %           |            |                |
|        |                                    | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 29     | pH                                 |           |            |          | 11.2 pH           |              | 11.2 pH        | 11.2 pH              |            |                |
|        |                                    |           | PH         |          |                   |              |                |                      |            |                |
| 30     | phenol                             |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                       | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                    |           |            |          |                   |              |                | 0.049 %              |            |                |

|             |                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|
| 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.024%)

## Classification of sample: BH22/06



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/06</b>     | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.90-1.10 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>3.5%</b>        |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 3.5% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 2.3 mg/kg         | 1.895        | 4.357 mg/kg    | 0.000436 %           |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.8 mg/kg         | 5.719        | 4.575 mg/kg    | 0.000458 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.3 mg/kg         | 1.142        | 0.343 mg/kg    | 0.0000343 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 8.9 mg/kg         | 1.462        | 13.008 mg/kg   | 0.0013 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 16 mg/kg          | 1.252        | 20.028 mg/kg   | 0.002 %              |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 14 mg/kg          |              | 14 mg/kg       | 0.0014 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 4 mg/kg           | 2.976        | 11.905 mg/kg   | 0.00119 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 26 mg/kg          | 1.245        | 32.363 mg/kg   | 0.00324 %            |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 30 mg/kg          |              | 30 mg/kg       | 0.003 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.21 mg/kg        |              | 0.21 mg/kg     | 0.000021 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.08 mg/kg        |              | 0.08 mg/kg     | 0.000008 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 0.63 mg/kg        |              | 0.63 mg/kg     | 0.000063 %           |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.13 mg/kg        |              | 0.13 mg/kg     | 0.000013 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 0.88 mg/kg        |              | 0.88 mg/kg     | 0.000088 %           |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 0.98 mg/kg        |              | 0.98 mg/kg     | 0.000098 %           |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 0.53 mg/kg        |              | 0.53 mg/kg     | 0.000053 %           |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 0.46 mg/kg        |              | 0.46 mg/kg     | 0.000046 %           |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 0.56 mg/kg        |              | 0.56 mg/kg     | 0.000056 %           |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 0.22 mg/kg        |              | 0.22 mg/kg     | 0.000022 %           |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 0.47 mg/kg        |              | 0.47 mg/kg     | 0.000047 %           |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 %          |            | <LOD           |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
| 28     | pH                                 |              | PH         |          | 8.6 pH            |              | 8.6 pH         | 8.6 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.014 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.003%)

## Classification of sample: BH22/08[4]



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/08[4]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>0.20 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>11%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 11% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 9.6 mg/kg         | 1.895        | 18.187 mg/kg   | 0.00182 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 3.7 mg/kg         | 5.719        | 21.161 mg/kg   | 0.00212 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 20 mg/kg          | 1.462        | 29.231 mg/kg   | 0.00292 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 47 mg/kg          | 1.252        | 58.834 mg/kg   | 0.00588 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 83 mg/kg          |              | 83 mg/kg       | 0.0083 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 15 mg/kg          | 2.976        | 44.644 mg/kg   | 0.00446 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 97 mg/kg          | 1.245        | 120.737 mg/kg  | 0.0121 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 330 mg/kg         |              | 330 mg/kg      | 0.033 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.17 mg/kg        |              | 0.17 mg/kg     | 0.000017 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.76 mg/kg        |              | 0.76 mg/kg     | 0.000076 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.68 mg/kg        |              | 0.68 mg/kg     | 0.000068 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 6.6 mg/kg         |              | 6.6 mg/kg      | 0.00066 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 8.3 mg/kg         |              | 8.3 mg/kg      | 0.00083 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 8.9 mg/kg         |              | 8.9 mg/kg      | 0.00089 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 4.6 mg/kg         |              | 4.6 mg/kg      | 0.00046 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 3.5 mg/kg         |              | 3.5 mg/kg      | 0.00035 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 4.5 mg/kg         |              | 4.5 mg/kg      | 0.00045 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 3.7 mg/kg         |              | 3.7 mg/kg      | 0.00037 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.37 mg/kg        |              | 0.37 mg/kg     | 0.000037 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 2.3 mg/kg         |              | 2.3 mg/kg      | 0.00023 %            |            |                |
| 28     | pH                                 |              | PH         |          | 9.8 pH            |              | 9.8 pH         | 9.8 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0759 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.033%)

## Classification of sample: BH22/08[5]



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

## Sample details

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/08[5]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.00 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>12%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 12% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 16 mg/kg          | 1.895        | 30.312 mg/kg   | 0.00303 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 3.7 mg/kg         | 5.719        | 21.161 mg/kg   | 0.00212 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.8 mg/kg         | 1.142        | 0.914 mg/kg    | 0.0000914 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 43 mg/kg          | 1.462        | 62.847 mg/kg   | 0.00628 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 61 mg/kg          | 1.252        | 76.358 mg/kg   | 0.00764 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 25 mg/kg          | 2.976        | 74.407 mg/kg   | 0.00744 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 230 mg/kg         | 1.245        | 286.284 mg/kg  | 0.0286 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 700 mg/kg         |              | 700 mg/kg      | 0.07 %               |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 2.8 mg/kg         |              | 2.8 mg/kg      | 0.00028 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.24 mg/kg        |              | 0.24 mg/kg     | 0.000024 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %            |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 8.4 mg/kg         |              | 8.4 mg/kg      | 0.00084 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 8.6 mg/kg         |              | 8.6 mg/kg      | 0.00086 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 8.6 mg/kg         |              | 8.6 mg/kg      | 0.00086 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 4 mg/kg           |              | 4 mg/kg        | 0.0004 %             |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 4.5 mg/kg         |              | 4.5 mg/kg      | 0.00045 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.36 mg/kg        |              | 0.36 mg/kg     | 0.000036 %           |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 10.1 pH           |              | 10.1 pH        | 10.1 pH              |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.143 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

---

Hazard Statements hit:

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

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Because of determinand:

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TPH (C6 to C40) petroleum group: (conc.: 0.07%)

Classification of sample: BH22/03[2]

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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/03[2]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>2.5 m</b>      | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>19%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 19% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 9.7               | mg/kg | 1.895        | 18.377         | mg/kg | 0.00184 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.4               | mg/kg | 5.719        | 2.288          | mg/kg | 0.000229 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 0.5               | mg/kg | 1.142        | 0.571          | mg/kg | 0.0000571 %          |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 28                | mg/kg | 1.462        | 40.924         | mg/kg | 0.00409 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 120               | mg/kg | 1.252        | 150.213        | mg/kg | 0.015 %              |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | 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                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 30                | mg/kg | 2.976        | 89.288         | mg/kg | 0.00893 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 140               | mg/kg | 1.245        | 174.26         | mg/kg | 0.0174 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | 5.2               | mg/kg | 1.884        | 9.797          | mg/kg | 0.00098 %            |            |                |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 230               | mg/kg |              | 230            | mg/kg | 0.023 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.55              | mg/kg |              | 0.55           | mg/kg | 0.000055 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.06              | mg/kg |              | 0.06           | mg/kg | 0.000006 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.58 mg/kg        |              | 0.58 mg/kg     | 0.000058 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.52 mg/kg        |              | 0.52 mg/kg     | 0.000052 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 3.8 mg/kg         |              | 3.8 mg/kg      | 0.00038 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 0.93 mg/kg        |              | 0.93 mg/kg     | 0.000093 %           |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 4.8 mg/kg         |              | 4.8 mg/kg      | 0.00048 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 4.2 mg/kg         |              | 4.2 mg/kg      | 0.00042 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 2 mg/kg           |              | 2 mg/kg        | 0.0002 %             |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 0.9 mg/kg         |              | 0.9 mg/kg      | 0.00009 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.21 mg/kg        |              | 0.21 mg/kg     | 0.000021 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 28     | pH                                 |              | PH         |          | 9.5 pH            |              | 9.5 pH         | 9.5 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0864 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.023%)

Classification of sample: BH22/02[2]

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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/02[2]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>3.50 m</b>     | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>17%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 17% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data |       | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|-------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |       |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 9.9               | mg/kg | 1.895        | 18.756         | mg/kg | 0.00188 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.6               | mg/kg | 5.719        | 3.432          | mg/kg | 0.000343 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |       |              |                |       |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2              | mg/kg | 1.142        | <0.228         | mg/kg | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |       |              |                |       |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 29                | mg/kg | 1.462        | 42.385         | mg/kg | 0.00424 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |       |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 36                | mg/kg | 1.252        | 45.064         | mg/kg | 0.00451 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |       |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 26                | mg/kg |              | 26             | mg/kg | 0.0026 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3              | mg/kg |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 34                | mg/kg | 2.976        | 101.193        | mg/kg | 0.0101 %             |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |       |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 120               | mg/kg | 1.245        | 149.366        | mg/kg | 0.0149 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |       |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1                | mg/kg | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |       |              |                |       |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 45                | mg/kg |              | 45             | mg/kg | 0.0045 %             |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |       |              |                |       |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 1.2               | mg/kg |              | 1.2            | mg/kg | 0.00012 %            |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |       |              |                |       |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05             | mg/kg |              | <0.05          | mg/kg | <0.000005 %          |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |       |              |                |       |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 0.77 mg/kg        |              | 0.77 mg/kg     | 0.000077 %           |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.76 mg/kg        |              | 0.76 mg/kg     | 0.000076 %           |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 4.5 mg/kg         |              | 4.5 mg/kg      | 0.00045 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 4.8 mg/kg         |              | 4.8 mg/kg      | 0.00048 %            |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 4.3 mg/kg         |              | 4.3 mg/kg      | 0.00043 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 0.99 mg/kg        |              | 0.99 mg/kg     | 0.000099 %           |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 1.8 mg/kg         |              | 1.8 mg/kg      | 0.00018 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.25 mg/kg        |              | 0.25 mg/kg     | 0.000025 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
| 28     | pH                                 |              | PH         |          | 8.7 pH            |              | 8.7 pH         | 8.7 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.0463 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0045%)

Classification of sample: BH22/02[3]

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

**Sample details**

|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| Sample name:      | LoW Code:                                                                                 |
| <b>BH22/02[3]</b> | Chapter:                                                                                  |
| Sample Depth:     | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.5 m</b>      | Entry:                                                                                    |
| Moisture content: | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>18%</b>        |                                                                                           |
| (no correction)   |                                                                                           |

**Hazard properties**

None identified

**Determinands**

Moisture content: 18% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |       | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |       |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 11 mg/kg          | 1.895        | 20.84          | mg/kg | 0.00208 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 0.6 mg/kg         | 5.719        | 3.432          | mg/kg | 0.000343 %           |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [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 { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 26 mg/kg          | 1.462        | 38             | mg/kg | 0.0038 %             |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |       |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 39 mg/kg          | 1.252        | 48.819         | mg/kg | 0.00488 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |       |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 52 mg/kg          |              | 52             | mg/kg | 0.0052 %             |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3           | mg/kg | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 30 mg/kg          | 2.976        | 89.288         | mg/kg | 0.00893 %            |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |       |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 220 mg/kg         | 1.245        | 273.837        | mg/kg | 0.0274 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |       |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884         | mg/kg | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |       |                      |            |                |
| 11 | benzene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-020-00-8                                                                                                                                                                           | 200-753-7                      | 71-43-2                          |          |                   |              |                |       |                      |            |                |
| 12 | toluene                                                                                                                                                                                |                                |                                  |          | <1 mg/kg          |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-021-00-3                                                                                                                                                                           | 203-625-9                      | 108-88-3                         |          |                   |              |                |       |                      |            |                |
| 13 | ethylbenzene                                                                                                                                                                           |                                |                                  |          | <1 mg/kg          |              | <1             | mg/kg | <0.0001 %            |            | <LOD           |
|    | 601-023-00-4                                                                                                                                                                           | 202-849-4                      | 100-41-4                         |          |                   |              |                |       |                      |            |                |

| #      | Determinand                                              |           |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|----------------------------------------------------------|-----------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                                      | EC Number | CAS Number |          |                   |              |                |                      |            |                |
| 14     | tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 603-181-00-X                                             | 216-653-1 | 1634-04-4  |          |                   |              |                |                      |            |                |
| 15     | TPH (C6 to C40) petroleum group                          |           |            |          | 150 mg/kg         |              | 150 mg/kg      | 0.015 %              |            |                |
|        |                                                          |           | TPH        |          |                   |              |                |                      |            |                |
| 16     | naphthalene                                              |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        | 601-052-00-2                                             | 202-049-5 | 91-20-3    |          |                   |              |                |                      |            |                |
| 17     | acenaphthylene                                           |           |            |          | 0.09 mg/kg        |              | 0.09 mg/kg     | 0.000009 %           |            |                |
|        |                                                          | 205-917-1 | 208-96-8   |          |                   |              |                |                      |            |                |
| 18     | acenaphthene                                             |           |            |          | 1 mg/kg           |              | 1 mg/kg        | 0.0001 %             |            |                |
|        |                                                          | 201-469-6 | 83-32-9    |          |                   |              |                |                      |            |                |
| 19     | fluorene                                                 |           |            |          | 0.97 mg/kg        |              | 0.97 mg/kg     | 0.000097 %           |            |                |
|        |                                                          | 201-695-5 | 86-73-7    |          |                   |              |                |                      |            |                |
| 20     | phenanthrene                                             |           |            |          | 5.9 mg/kg         |              | 5.9 mg/kg      | 0.00059 %            |            |                |
|        |                                                          | 201-581-5 | 85-01-8    |          |                   |              |                |                      |            |                |
| 21     | anthracene                                               |           |            |          | 1.5 mg/kg         |              | 1.5 mg/kg      | 0.00015 %            |            |                |
|        |                                                          | 204-371-1 | 120-12-7   |          |                   |              |                |                      |            |                |
| 22     | fluoranthene                                             |           |            |          | 5.9 mg/kg         |              | 5.9 mg/kg      | 0.00059 %            |            |                |
|        |                                                          | 205-912-4 | 206-44-0   |          |                   |              |                |                      |            |                |
| 23     | pyrene                                                   |           |            |          | 5.3 mg/kg         |              | 5.3 mg/kg      | 0.00053 %            |            |                |
|        |                                                          | 204-927-3 | 129-00-0   |          |                   |              |                |                      |            |                |
| 24     | benzo[a]anthracene                                       |           |            |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
|        | 601-033-00-9                                             | 200-280-6 | 56-55-3    |          |                   |              |                |                      |            |                |
| 25     | chrysene                                                 |           |            |          | 2.1 mg/kg         |              | 2.1 mg/kg      | 0.00021 %            |            |                |
|        | 601-048-00-0                                             | 205-923-4 | 218-01-9   |          |                   |              |                |                      |            |                |
| 26     | benzo[b]fluoranthene                                     |           |            |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
|        | 601-034-00-4                                             | 205-911-9 | 205-99-2   |          |                   |              |                |                      |            |                |
| 27     | benzo[k]fluoranthene                                     |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        | 601-036-00-5                                             | 205-916-6 | 207-08-9   |          |                   |              |                |                      |            |                |
| 28     | benzo[a]pyrene; benzo[def]chrysene                       |           |            |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
|        | 601-032-00-3                                             | 200-028-5 | 50-32-8    |          |                   |              |                |                      |            |                |
| 29     | indeno[123-cd]pyrene                                     |           |            |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
|        |                                                          | 205-893-2 | 193-39-5   |          |                   |              |                |                      |            |                |
| 30     | dibenz[a,h]anthracene                                    |           |            |          | 0.3 mg/kg         |              | 0.3 mg/kg      | 0.00003 %            |            |                |
|        | 601-041-00-2                                             | 200-181-8 | 53-70-3    |          |                   |              |                |                      |            |                |
| 31     | benzo[ghi]perylene                                       |           |            |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
|        |                                                          | 205-883-8 | 191-24-2   |          |                   |              |                |                      |            |                |
| 32     | pH                                                       |           |            |          | 9.3 pH            |              | 9.3 pH         | 9.3 pH               |            |                |
|        |                                                          |           | PH         |          |                   |              |                |                      |            |                |
| 33     | phenol                                                   |           |            |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
|        | 604-001-00-2                                             | 203-632-7 | 108-95-2   |          |                   |              |                |                      |            |                |
| Total: |                                                          |           |            |          |                   |              |                | 0.0719 %             |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

---

Hazard Statements hit:

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

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Because of determinand:

---

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

## Classification of sample: BH22/05[2]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/05[2]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>1.90-2.10 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>18%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 18% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. |             | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|-------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |             |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 9.6 mg/kg         | 1.895        | 18.187 mg/kg   | 0.00182 %   |                      |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 1.1 mg/kg         | 5.719        | 6.291 mg/kg    | 0.000629 %  |                      |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |             |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | 1.2 mg/kg         | 1.142        | 1.371 mg/kg    | 0.000137 %  |                      |            |                |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |             |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 27 mg/kg          | 1.462        | 39.462 mg/kg   | 0.00395 %   |                      |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |             |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 38 mg/kg          | 1.252        | 47.568 mg/kg   | 0.00476 %   |                      |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |             |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 140 mg/kg         |              | 140 mg/kg      | 0.014 %     |                      |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %  |                      |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 22 mg/kg          | 2.976        | 65.478 mg/kg   | 0.00655 %   |                      |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |             |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 880 mg/kg         | 1.245        | 1095.348 mg/kg | 0.11 %      |                      |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |             |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 % |                      |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |             |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 170 mg/kg         |              | 170 mg/kg      | 0.017 %     |                      |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |             |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.65 mg/kg        |              | 0.65 mg/kg     | 0.000065 %  |                      |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |             |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | <0.05 mg/kg       |              | <0.05 mg/kg    | <0.000005 % |                      |            | <LOD           |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |             |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 1.1 mg/kg         |              | 1.1 mg/kg      | 0.00011 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 0.9 mg/kg         |              | 0.9 mg/kg      | 0.00009 %            |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 6.7 mg/kg         |              | 6.7 mg/kg      | 0.00067 %            |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 1.7 mg/kg         |              | 1.7 mg/kg      | 0.00017 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 7 mg/kg           |              | 7 mg/kg        | 0.0007 %             |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 6.1 mg/kg         |              | 6.1 mg/kg      | 0.00061 %            |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 3.4 mg/kg         |              | 3.4 mg/kg      | 0.00034 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 2.2 mg/kg         |              | 2.2 mg/kg      | 0.00022 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 1.4 mg/kg         |              | 1.4 mg/kg      | 0.00014 %            |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 2.4 mg/kg         |              | 2.4 mg/kg      | 0.00024 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 1.2 mg/kg         |              | 1.2 mg/kg      | 0.00012 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.31 mg/kg        |              | 0.31 mg/kg     | 0.000031 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 1.3 mg/kg         |              | 1.3 mg/kg      | 0.00013 %            |            |                |
| 28     | pH                                 |              | PH         |          | 8.3 pH            |              | 8.3 pH         | 8.3 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.163 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.017%)

## Classification of sample: BH22/05[3]



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

## Sample details

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| Sample name:       | LoW Code:                                                                                 |
| <b>BH22/05[3]</b>  | Chapter:                                                                                  |
| Sample Depth:      | 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) |
| <b>3.90-4.10 m</b> | Entry:                                                                                    |
| Moisture content:  | 17 05 04 (Soil and stones other than those mentioned in 17 05 03)                         |
| <b>24%</b>         |                                                                                           |
| (no correction)    |                                                                                           |

## Hazard properties

None identified

## Determinands

Moisture content: 24% No Moisture Correction applied (MC)

| #  | Determinand                                                                                                                                                                            |                                |                                  | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|    | EU CLP index number                                                                                                                                                                    | EC Number                      | CAS Number                       |          |                   |              |                |                      |            |                |
| 1  | arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex }                                                                                   |                                |                                  |          | 32 mg/kg          | 1.895        | 60.625 mg/kg   | 0.00606 %            |            |                |
|    | 033-005-00-1                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 2  | boron { boric acid; [1] boric acid [2] }                                                                                                                                               |                                |                                  |          | 2.5 mg/kg         | 5.719        | 14.298 mg/kg   | 0.00143 %            |            |                |
|    | 005-007-00-2                                                                                                                                                                           | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] |          |                   |              |                |                      |            |                |
| 3  | cadmium { cadmium oxide }                                                                                                                                                              |                                |                                  |          | <0.2 mg/kg        | 1.142        | <0.228 mg/kg   | <0.0000228 %         |            | <LOD           |
|    | 048-002-00-0                                                                                                                                                                           | 215-146-2                      | 1306-19-0                        |          |                   |              |                |                      |            |                |
| 4  | chromium { chromium(III) oxide }                                                                                                                                                       |                                |                                  |          | 23 mg/kg          | 1.462        | 33.616 mg/kg   | 0.00336 %            |            |                |
|    |                                                                                                                                                                                        | 215-160-9                      | 1308-38-9                        |          |                   |              |                |                      |            |                |
| 5  | copper { copper(II) oxide }                                                                                                                                                            |                                |                                  |          | 69 mg/kg          | 1.252        | 86.373 mg/kg   | 0.00864 %            |            |                |
|    | 029-016-00-6                                                                                                                                                                           | 215-269-1                      | 1317-38-0                        |          |                   |              |                |                      |            |                |
| 6  | lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }                                                                                     |                                |                                  | 1        | 140 mg/kg         |              | 140 mg/kg      | 0.014 %              |            |                |
|    | 082-001-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 7  | mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }                                                         |                                |                                  | 1        | <0.3 mg/kg        |              | <0.3 mg/kg     | <0.00003 %           |            | <LOD           |
|    | 080-002-00-6                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 8  | nickel { nickel chromate }                                                                                                                                                             |                                |                                  |          | 39 mg/kg          | 2.976        | 116.074 mg/kg  | 0.0116 %             |            |                |
|    | 028-035-00-7                                                                                                                                                                           | 238-766-5                      | 14721-18-7                       |          |                   |              |                |                      |            |                |
| 9  | zinc { zinc oxide }                                                                                                                                                                    |                                |                                  |          | 140 mg/kg         | 1.245        | 174.26 mg/kg   | 0.0174 %             |            |                |
|    | 030-013-00-7                                                                                                                                                                           | 215-222-5                      | 1314-13-2                        |          |                   |              |                |                      |            |                |
| 10 | cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } |                                |                                  |          | <1 mg/kg          | 1.884        | <1.884 mg/kg   | <0.000188 %          |            | <LOD           |
|    | 006-007-00-5                                                                                                                                                                           |                                |                                  |          |                   |              |                |                      |            |                |
| 11 | TPH (C6 to C40) petroleum group                                                                                                                                                        |                                |                                  |          | 290 mg/kg         |              | 290 mg/kg      | 0.029 %              |            |                |
|    |                                                                                                                                                                                        |                                | TPH                              |          |                   |              |                |                      |            |                |
| 12 | naphthalene                                                                                                                                                                            |                                |                                  |          | 0.72 mg/kg        |              | 0.72 mg/kg     | 0.000072 %           |            |                |
|    | 601-052-00-2                                                                                                                                                                           | 202-049-5                      | 91-20-3                          |          |                   |              |                |                      |            |                |
| 13 | acenaphthylene                                                                                                                                                                         |                                |                                  |          | 0.32 mg/kg        |              | 0.32 mg/kg     | 0.000032 %           |            |                |
|    |                                                                                                                                                                                        | 205-917-1                      | 208-96-8                         |          |                   |              |                |                      |            |                |

| #      | Determinand                        |              |            | CLP Note | User entered data | Conv. Factor | Compound conc. | Classification value | MC Applied | Conc. Not Used |
|--------|------------------------------------|--------------|------------|----------|-------------------|--------------|----------------|----------------------|------------|----------------|
|        | EU CLP index number                | EC Number    | CAS Number |          |                   |              |                |                      |            |                |
| 14     | acenaphthene                       | 201-469-6    | 83-32-9    |          | 2.9 mg/kg         |              | 2.9 mg/kg      | 0.00029 %            |            |                |
| 15     | fluorene                           | 201-695-5    | 86-73-7    |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
| 16     | phenanthrene                       | 201-581-5    | 85-01-8    |          | 20 mg/kg          |              | 20 mg/kg       | 0.002 %              |            |                |
| 17     | anthracene                         | 204-371-1    | 120-12-7   |          | 4.9 mg/kg         |              | 4.9 mg/kg      | 0.00049 %            |            |                |
| 18     | fluoranthene                       | 205-912-4    | 206-44-0   |          | 18 mg/kg          |              | 18 mg/kg       | 0.0018 %             |            |                |
| 19     | pyrene                             | 204-927-3    | 129-00-0   |          | 19 mg/kg          |              | 19 mg/kg       | 0.0019 %             |            |                |
| 20     | benzo[a]anthracene                 | 601-033-00-9 | 200-280-6  |          | 9.4 mg/kg         |              | 9.4 mg/kg      | 0.00094 %            |            |                |
| 21     | chrysene                           | 601-048-00-0 | 205-923-4  |          | 6.6 mg/kg         |              | 6.6 mg/kg      | 0.00066 %            |            |                |
| 22     | benzo[b]fluoranthene               | 601-034-00-4 | 205-911-9  |          | 7.8 mg/kg         |              | 7.8 mg/kg      | 0.00078 %            |            |                |
| 23     | benzo[k]fluoranthene               | 601-036-00-5 | 205-916-6  |          | 3 mg/kg           |              | 3 mg/kg        | 0.0003 %             |            |                |
| 24     | benzo[a]pyrene; benzo[def]chrysene | 601-032-00-3 | 200-028-5  |          | 7.3 mg/kg         |              | 7.3 mg/kg      | 0.00073 %            |            |                |
| 25     | indeno[123-cd]pyrene               | 205-893-2    | 193-39-5   |          | 3.1 mg/kg         |              | 3.1 mg/kg      | 0.00031 %            |            |                |
| 26     | dibenz[a,h]anthracene              | 601-041-00-2 | 200-181-8  |          | 0.73 mg/kg        |              | 0.73 mg/kg     | 0.000073 %           |            |                |
| 27     | benzo[ghi]perylene                 | 205-883-8    | 191-24-2   |          | 3.6 mg/kg         |              | 3.6 mg/kg      | 0.00036 %            |            |                |
| 28     | pH                                 |              | PH         |          | 8.6 pH            |              | 8.6 pH         | 8.6 pH               |            |                |
| 29     | phenol                             | 604-001-00-2 | 203-632-7  |          | <1 mg/kg          |              | <1 mg/kg       | <0.0001 %            |            | <LOD           |
| Total: |                                    |              |            |          |                   |              |                | 0.103 %              |            |                |

## 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** Soil sample with significant moisture. No significant gross contamination identified on site during investigation. Unlikely to be flammable below 1000mg/kg.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.029%)

## Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from ECHA's C&L inventory database

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

Data source date: 30 Apr 2020

Hazard Statements: Acute Tox. 4; H302, Skin Sens. 1; H317, Eye Irrit. 2; H319

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

GB MCL index number: 082-001-00-6

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

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium

[www.reach-lead.eu/substanceinformation.html](http://www.reach-lead.eu/substanceinformation.html) (worst case lead compounds). Review date 29/09/2015

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

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

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

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

Reason for additional Hazards Statement(s):

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

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

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

Description/Comments:

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

Reason for additional Hazards Statement(s):

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

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

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

### ■ **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

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

## Appendix B: Rationale for selection of metal species

### arsenic {arsenic acid and its salts with the exception of those specified elsewhere in this Annex}

Owing to industrial site history (iron works), most likely form of arsenic present on Site.

### boron {boric acid; [1] boric acid [2]}

Most likely form present on site owing to historical railway uses and industry

### cadmium {cadmium oxide}

Most likely form based on site history.

### chromium {chromium(III) oxide}

Most likely form present on Site.

### copper {copper(II) oxide}

Most likely form present on site.

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

Most likely form present on site owing to site history.

### mercury {inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex}

Most likely form present on site.

### nickel {nickel chromate}

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

### zinc {zinc oxide}

Owing to historical uses across the site (iron works) most likely form of zinc.

**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 v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2023.73.5544.10256 (14 Mar 2023)

HazWasteOnline Database: 2023.73.5544.10256 (14 Mar 2023)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020** - UK:

2020 No. 1540 of 16th December 2020

**GB MCL List** - version 1.1 of 09 June 2021

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