

Etihad Campus – Site Improvement Works

Generic Quantitative Risk Assessment

ETC-BHE-ZX-XX-RP-CG-0003

0053810

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Revision P01

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author **Francesca Gould**

date **24th February 2023**

approved **Chris O'Hara / Hugh Mallett**

signature 

date **24th February 2023**

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Executive Summary

Background	The purpose of this Study is to establish the environmental, geological, hydrological and hydrogeological conditions present at the Site that may result in potential contamination risks for the Site improvement works.
Site Setting	The Site covers some 2.6 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.
History	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 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.
Geological Setting	The natural geology beneath the Site comprises Carboniferous Pennine Upper Coal Measures (at about +45mOD), overlain by approximately 11m of Glacial Till. Made Ground was encountered to varying depths, ranging between 3m and 8m bgl. Typically, the top 0.4m of Made Ground is 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.
Site Investigation	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. These were 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.
Contamination Risk Assessment	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. 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 (<0.001%), with the remaining 2/3 with concentrations above 0.001% but well below the hazardous waste threshold (0.1%). 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 deposits. 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. 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. 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).

**Conclusions and
Recommendations**

No significant geoenvironmental risks have been identified which would require further investigation prior to the Site improvement works. The potential risks to Contractors engaged in the works, are capable of mitigation by the adoption of an appropriate good standard of health, safety and hygiene regime. 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 the Etihad Campus Site improvement works. 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 covers some 2.6 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.

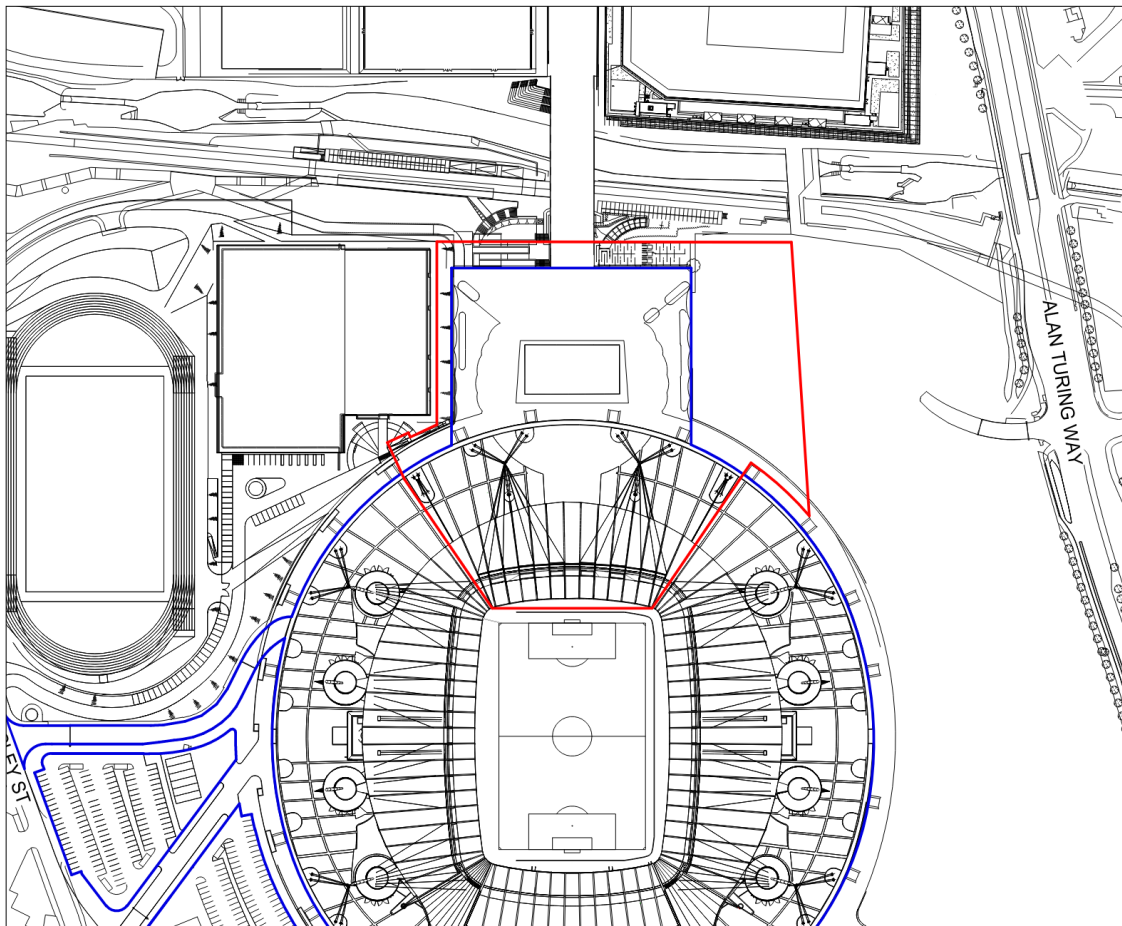


Figure 1-1 Extent of site (red line)

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) during the Site Improvement Works; 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 Site Improvement Works 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 from 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.

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 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:

- 2022 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 in 1990s and then 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.

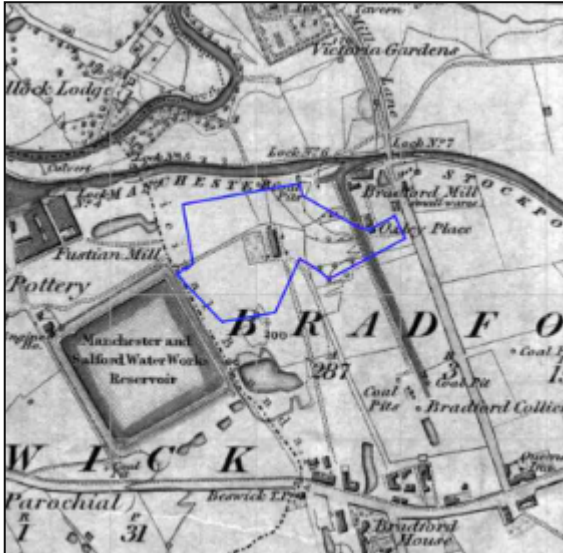


Figure 2-1 – Extract of 1848 map.



Figure 2-2 – Extract of 1968 map

2.3 Proposed works

The proposed activities include Site Improvement Works, the formal planning description of these works is set out in the respective cover letter and planning application form. The following text has been provided:

"Full planning permission for site improvement works comprising (1) site investigation and remediation activity in respect of historic coal mining activity, including trial piling and grouting of coal seams (2) demolition of the club shop (3) service and drainage diversions and (4) associated temporary works to maintain safe access around the stadium."

As part of these Site Improvement Works, grouting will be carried out. Accordingly, a formal Groundwater Risk Assessment has been produced to assess the risks associated with these works [27]. For further detail about the grout work activities, the risk assessment and remedial approach, appropriate reference should be made to that report.

2.4 Anticipated ground model

Previous ground investigation information (listed above in Section 2.1) and the available geological maps [28], [29] 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 [30], the conclusions of which advise the Site to be at Low risk from UXO,

3 Preliminary Risk Assessment

3.1 Preliminary Conceptual Site Model

Potential contamination sources from former uses of the Site have been identified following a review of Site setting and desk study information (summarised below). The receptors are human health (construction workers, site neighbours), controlled waters (Secondary Aquifer, River Medlock) and the built environment. Future site users were not considered within the assessment as following the Site Improvement Works the area will remain public open space and be covered entirely by hardstanding (therefore there is no pollutant linkage between future Site users and any underlying Made Ground materials). 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 banded 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 [normal text]	Risk Assessment (following CIRIA C552)			Comment on hazard realisation [normal text] and mitigation measures [bold text]
	Consequence	Probability	Risk	
Description of source: 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).				
Human health impacts to investigation / construction workers Direct contact and dermal uptake, soil and dust ingestion and inhalation during construction	Medium	Low likelihood	Moderate / Low	Potential for exposure during investigations / Site Improvement Works. 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. Mitigation of potential risks can be achieved by appropriate investigation and adoption of standard good construction practice.
Site neighbours Inhalation / ingestion of dust during construction	Medium	Unlikely	Low	Site Improvement Works have the potential to impact surrounding users by dust generation. Increased potential during any earthworks and short distance to nearest neighbours. Mitigation of potential risks can be achieved by appropriate investigation and adoption of standard good construction practice.

Hazard to Receptor [bold text] / Pathway [normal text]	Risk Assessment (following CIRIA C552)			Comment on hazard realisation [normal text] and mitigation measures [bold text]
	Consequence	Probability	Risk	
Degradation of water quality (Secondary Aquifer) Migration via permeable strata	Mild	Low likelihood	Low	Potential for increased infiltration and promotion of leaching during Site Improvement 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. Mitigation of potential risks could be achieved by appropriate investigation, risk assessment and design.
Degradation of water quality (River Medlock)	Medium	Unlikely	Low	Potential for increased infiltration and promotion of leaching during Site Improvement Works. River Medlock located 176m northwest of the Site, however located within a culvert. Nearest entrance to the Medlock is >300m west. Mitigation of potential risks could be achieved by appropriate investigation, risk assessment and design.
Built environment Direct contact	Medium	Low likelihood	Moderate / Low	Potential for direct contact on development Site. Mitigation of potential risks can be achieved by appropriate investigation / design and implementation of appropriate design.
Description of source: Manchester and Salford Water Works Reservoir occupied a large area to the southwest 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. 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.				
Human health impacts to investigation / construction workers 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. Mitigation of potential risks can be achieved by appropriate investigation and adoption of standard good construction practice.

4 Ground Investigation

4.1 Objectives

The scope of the ground investigation was designed to meet the aims and objectives set out in Section 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 (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 +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 (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. 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 (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 +57.75	9.7 – 12.6 (11.4)

Strata	Description	Top of Strata		Thickness (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 – 17.7	+45.7 to +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 ETC-BHE-XX-ZX-DR-CG-3001 to 3004 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 are summarised below in Figure 4-4.

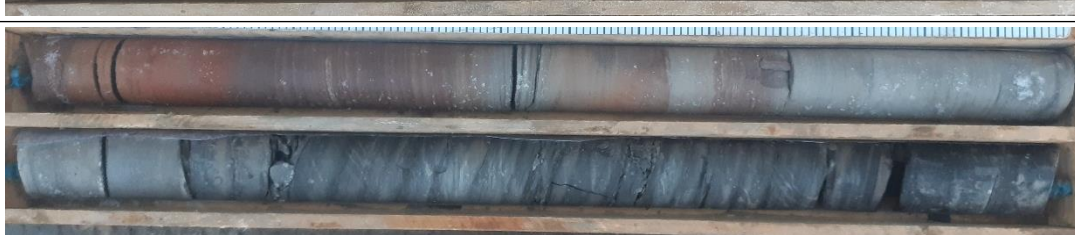
	22.5- 25.5mbgl (Charlotte Upper)
	28.5- 31.5mbgl (Charlotte Lower)
	40.5- 43.5mbgl
	46.5- 49.5mbgl
	49.5- 52.5mbgl (sandstone band)
	52.5-55- 5mbgl

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. 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 [31]).

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.

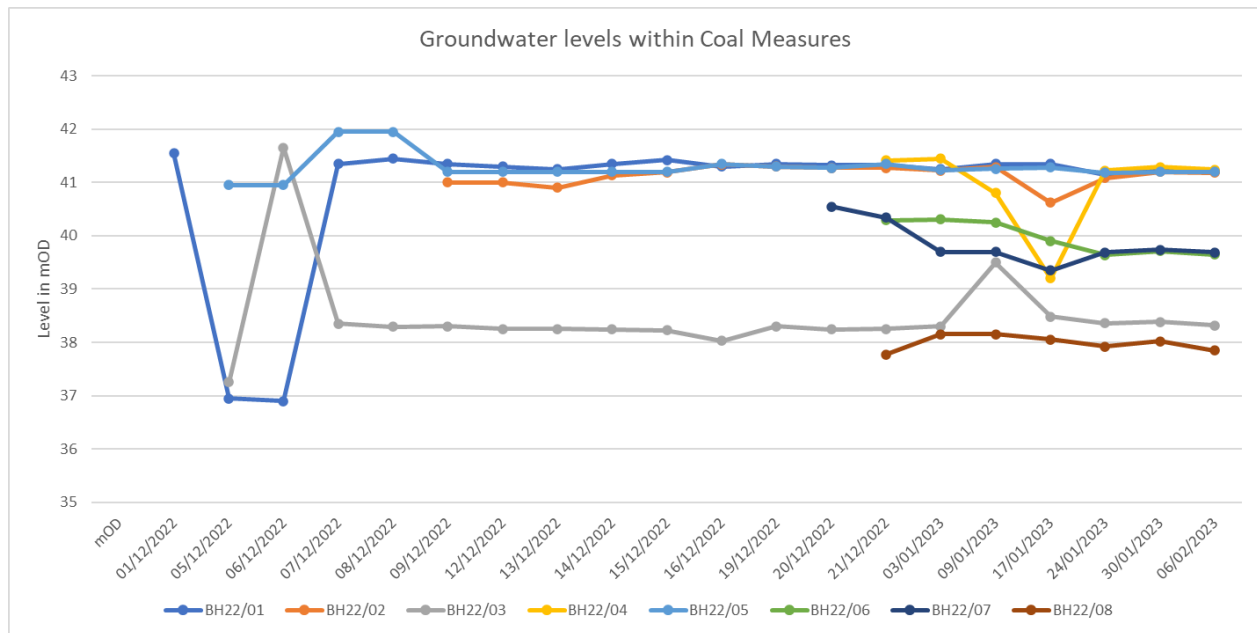


Figure 4-5 Groundwater monitoring within the Coal Measures, note the initial readings were taken prior to development of the well.

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) [32]. 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) [33].

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 [34] but there is no universally accepted guidance (or contaminant thresholds). The most recent guidance published by Water UK [35] 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 [36], the Freshwater EQS [37] and the WHO Drinking Water Guidelines [38].

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 [39], National Housing Building Council (NHBC) guidance [40] and BS 8485 [41]. Consideration to both methane (CH₄) and carbon dioxide (CO₂) concentrations as well as flow rates will be given. The borehole hazardous gas flow rate (Q_{hg}) 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_{hg}. 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_{hg} 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 [42].

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) [32] 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]

Water UK

Test Group	Determinand used	Total no of samples	Polyethylene (PE) Threshold (No exceeding)	Metal Pipes / Barrier Pipes	LCL* mg/kg	Max. mg/kg	UCL mg/kg
EC5-EC10 aliphatic and aromatic hydrocarbons	Aliphatic and Aromatic C5-C10	22	2 (0)	Pass	<0.001	0.046	0.01

Test Group	Determinand used	Total no of samples	Polyethylene (PE) Threshold (No exceeding)	Metal Pipes / Barrier Pipes	LCL* mg/kg	Max. mg/kg	UCL mg/kg
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 >LoD</i>) <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 >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 (4th January and 24th 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 3rd and 30th 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 [43], 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 Site Improvement Works activities with reference to CIRIA report C665 [39], National Housing Building Council (NHBC) guidance [40] and BS 8485 . Accordingly, consideration is given to both methane (CH₄) and carbon dioxide (CO₂) concentrations as well as flow rates. The borehole hazardous gas flow rate (Q_{hg}) is defined as the product of the gas concentration and the flow rate. This value (Q_{hg}) 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	11.8 [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	6.8 [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	2.7 [<0.05, <0.05, <0.05, <0.05]	10.4 [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	11.1 [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	13.2 [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	8.3 [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	7.7 [19.9, 20.2, 19.9, 17.9]	<0.05	<0.05	15.4 [0.8, 0.2, 0.7, <0.05]
Worst case example	-	-	-	-	-	0.4	0.2	2.7	6.8	0.2	0.05	34.3

*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 rd January 2023: 1018-1008-1000mb (falling)
Return visit 2	9 th January 2023: 989-1003-1008mb (rising)
Return visit 3	17 th January 2023: 987-979-981mb (steady)
Return visit 4	23 rd – 24 th January 2023: 1033-1038-1033mb (rising then falling)
Return visit 5	30 th 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 [39] and BS8485 [41]. 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 23rd 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 (Qhg) 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 CO₂ and CH₄ (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 Site Improvement Works will 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 Landfill Waste 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: Mineral oil – 650mg/kg Total PAH – 153mg/kg pH – 10.4 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: pH – 9.8 Mercury – 0.0373mg/kg
(WS)TP22/01	1.8	Meets Inert Waste Landfill
BH22/01	1.0	Exceeds Hazardous Waste Landfill: Loss on Ignition – 12.1% Exceeds Inert Waste Landfill, meets Stable Non-Reactive: 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.

Source	The contaminants that have the potential to negatively affect human health and/or the health of the environment (i.e. the hazard).
Pathway	The potential route by which a receptor may come into contact with the source.
Receptor	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 [44] requires factoring climate change into risk assessments and remedial solutions. The British Standard, 'Adaptation to Climate Change – Principles, Requirements and Guidelines' [45] 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 Site improvement works proposed.

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 anticipated future Site improvement works at the Site. Future site users are not being considered further within this assessment as following the Site Improvement Works the area will remain public open space and be covered entirely by hardstanding (therefore there is no pollutant linkage between future Site users and any underlying Made Ground materials). 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 bunded by low permeability materials (clay) and the presence of the Metrolink cutting will inhibit any contamination migration to the Canal.

The Site is entirely hardstanding with limited flora present (where present these are tree pits isolated from the underlying soils). Therefore, flora is not being considered further within this assessment for the Site improvement works. Site improvement works do not incorporate placement of services such as water supply pipework or new foundations therefore assessment to the built environment has not been considered further.

Table 10-2: Receptors and pathways

Receptor		Pathway
Human Health	Earthwork contractors engaged with Site improvement works	Direct contact and dermal uptake, soil and dust ingestion.
	Users of neighbouring land (during Site improvement works)	Soil and dust inhalation during Site improvement works.
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. probing / drilling through the low permeability superficial deposits). Migration toward the River via the Coal Measure strata.

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)			Description of source [bold text]. 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	Description of source: 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. 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%). 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.				
			Human health impacts to earthworks contractors engaged in Site improvement works 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. Implementation of standard good practice and Health and Safety precautions including dust control and PPE will mitigate risks.
			Human health impacts to users of neighbouring land during Site improvement works 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). Exposure time will be relatively limited. Implementation of standard good practice and Health and Safety precautions including dust control will mitigate risks.
			Degradation of groundwater in Secondary A 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).
			Degradation of water quality within River Medlock 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.

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 Site Improvement Works	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. For further detail on the proposed grouting works and impacts this could have on the groundwater and other sensitive receptors, refer to the Buro Happold Groundwater Risk Assessment [27].

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 detailed UXO assessment concluded that the risks associated with UXO are Low therefore no further actions are required during the Site improvement works.

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 engaged in Site Improvement Works

The potential for direct contact and dust inhalation (including asbestos fibres) during the Site Improvement 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 Site Improvement Works.
- 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 Site Improvement Works are 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. Any subsequent localised excavations will still require controls implemented during the enabling works.

12.2.2 Protection of surrounding Site users / visitors during the Site Improvement Works

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 [46] 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 Site Improvement Works are 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. Any subsequent localised excavations will still require controls implemented during the enabling works.

12.2.3 Unforeseen contamination encountered during Site Improvement Works

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 planned Site Improvement Works. 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. There is no landscaping proposed during the Site Improvement Works.

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 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.

13 References

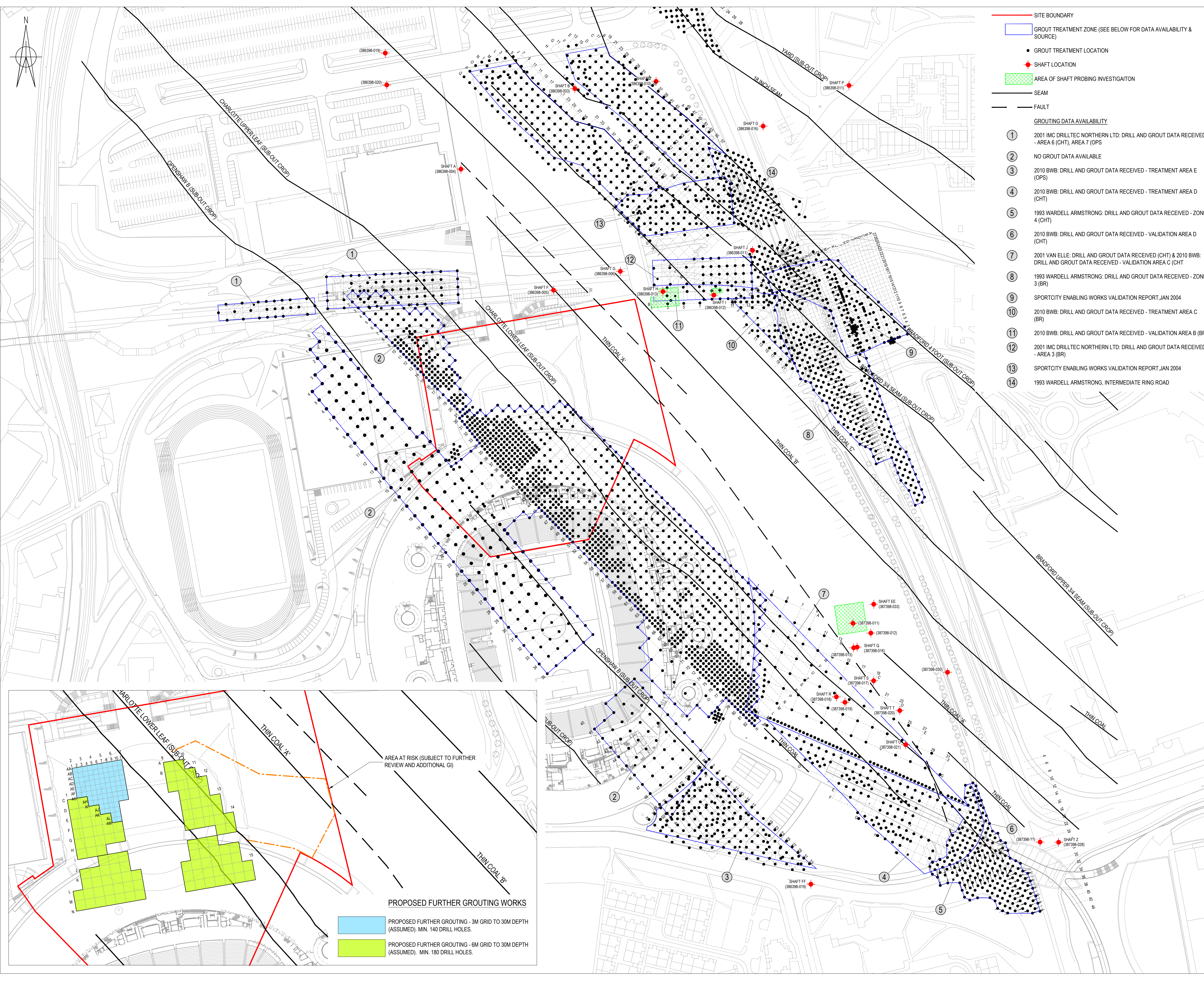
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Appendix A Relevant Drawings

Drawing Number	Drawing Title
ETC-BHE-ZX-XX-DR-CG-1003	Existing grout treatment plan
ETC-BHE-ZX-XX-DR-CG-1008	Constraints identified during ground investigation
ETC-BHE-ZX-XX-DR-CG-2002	Mining Constraints Plan
ETC-BHE-ZX-XX-DR-CG-3001	Cross section location plan showing as built ground investigation locations
ETC-BHE-ZX-XX-DR-CG-3002	Cross section 1
ETC-BHE-ZX-XX-DR-CG-3003	Cross section 2
ETC-BHE-ZX-XX-DR-CG-3004	Cross section 3



- 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)
 - SPORTCITY ENABLING WORKS VALIDATION REPORT, JAN 2004
 - 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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DECOMMISSIONING/DEMOLITION.

Notes
REF: ARUP, COALSEAMS AND SHAFT LOCATIONS, DRAWING NO. ARP-LAY-CG-130, REVISION C, 01.03.2010.
BWB CONSULTING, SCOPE OF WORKS FOR MINE WORKINGS TREATMENT AND VALIDATION, DRAWING NO. NTH/185/211, REVISION P2, 14.10.2010.
BWB CONSULTING, FIGURE 5 VALIDATION AREA B MINE STABILISATION WORKS, DRAWING NO. NTH 185/03/AREAA/F5, 02.2011.
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.
BWB CONSULTING, SCOPE OF WORKS FOR MINE WORKINGS TREATMENT AND VALIDATION SHEET 1, DRAWING NO. NTH/185/210, REVISION P2, 14.10.2010.
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.

P03 BOUNDARY & PROPOSED GROUTING LAYOUT UPDATED. ISSUED FOR INFORMATION.	24.02.23	NG	FG	
P02 BOUNDARY UPDATE. ISSUED FOR INFORMATION.	03.02.23	NG	FG	
P01 INFORMATION	09.12.22	NG	FG	
Rev	Description	Date	Dm	Ch'd

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Bath BA2 3DQ
UK

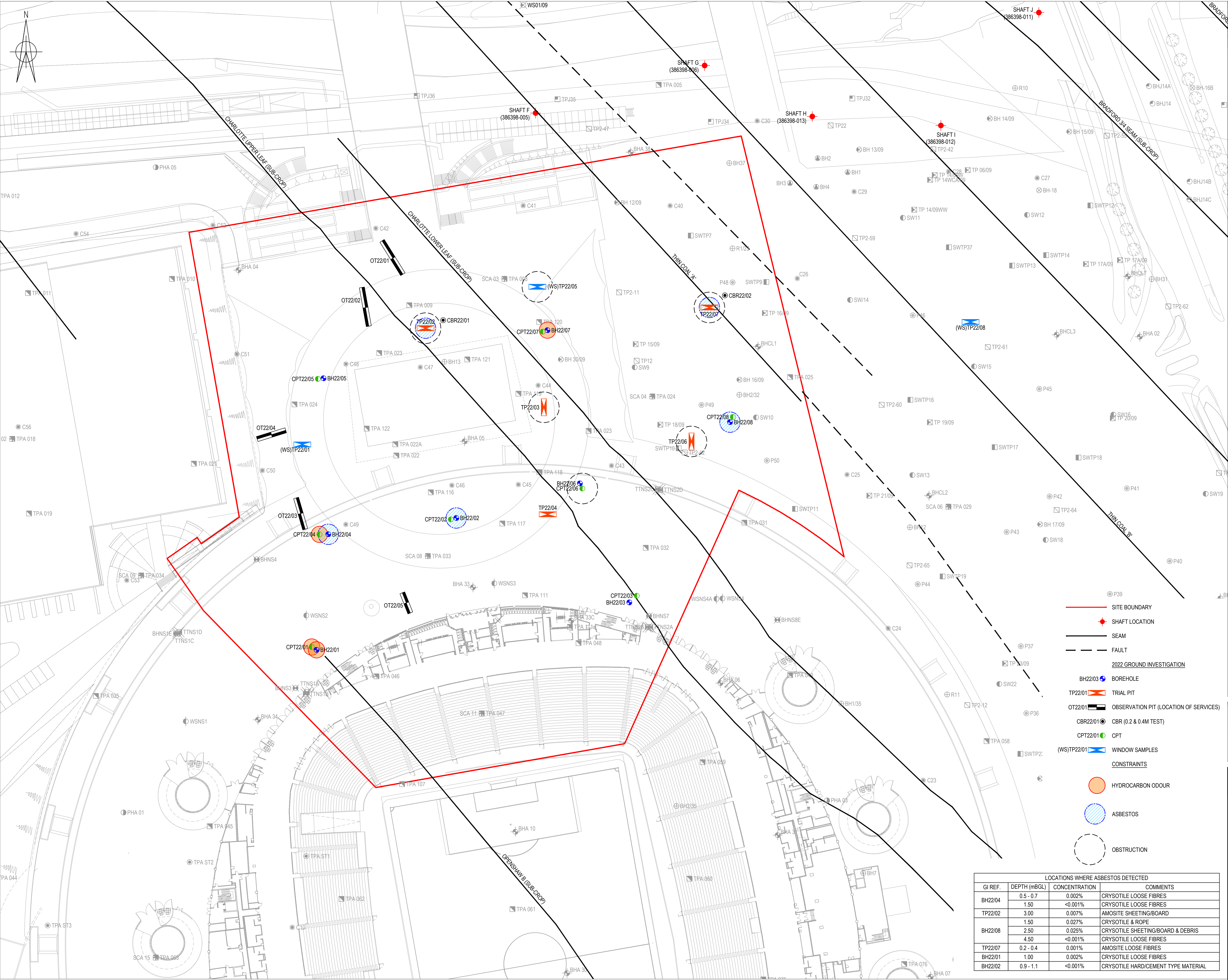
Tel: +44 (0)1225 320600
Fax: +44 (0)870 787 4148
Email: 0053810@burohappold.com
Web: www.burohappold.com

Architect
Project **ETIHAD CAMPUS SITE IMPROVEMENT WORKS**
Drg Title **MINING TREATMENT AREAS**

Scales@A1 1:1250
Drawn by NG
Checked by FG

Job No. **0053810**
Date **DEC 2022**
Rev **P03**

Drawing No. **ETC-BHE-ZX-XX-DR-CG-1003**



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P01 INFORMATION 24.02.23 NG FG

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Status of drawing

BURO HAPPOLD

Camden Mill
Lower Bristol Road
Bath BA2 3DQ
UK

Tel: +44 (0)1225 320600
Fax: +44 (0)870 787 4148
Email: 0053810@burohappold.com
Web: www.burohappold.com

Architect

Project **ETIHAD CAMPUS SITE IMPROVEMENT WORKS**

Drg Title **CONSTRAINTS IDENTIFIED DURING GROUND INVESTIGATION**

Scales@A1 1:500

Drawn by NG

Checked by FG

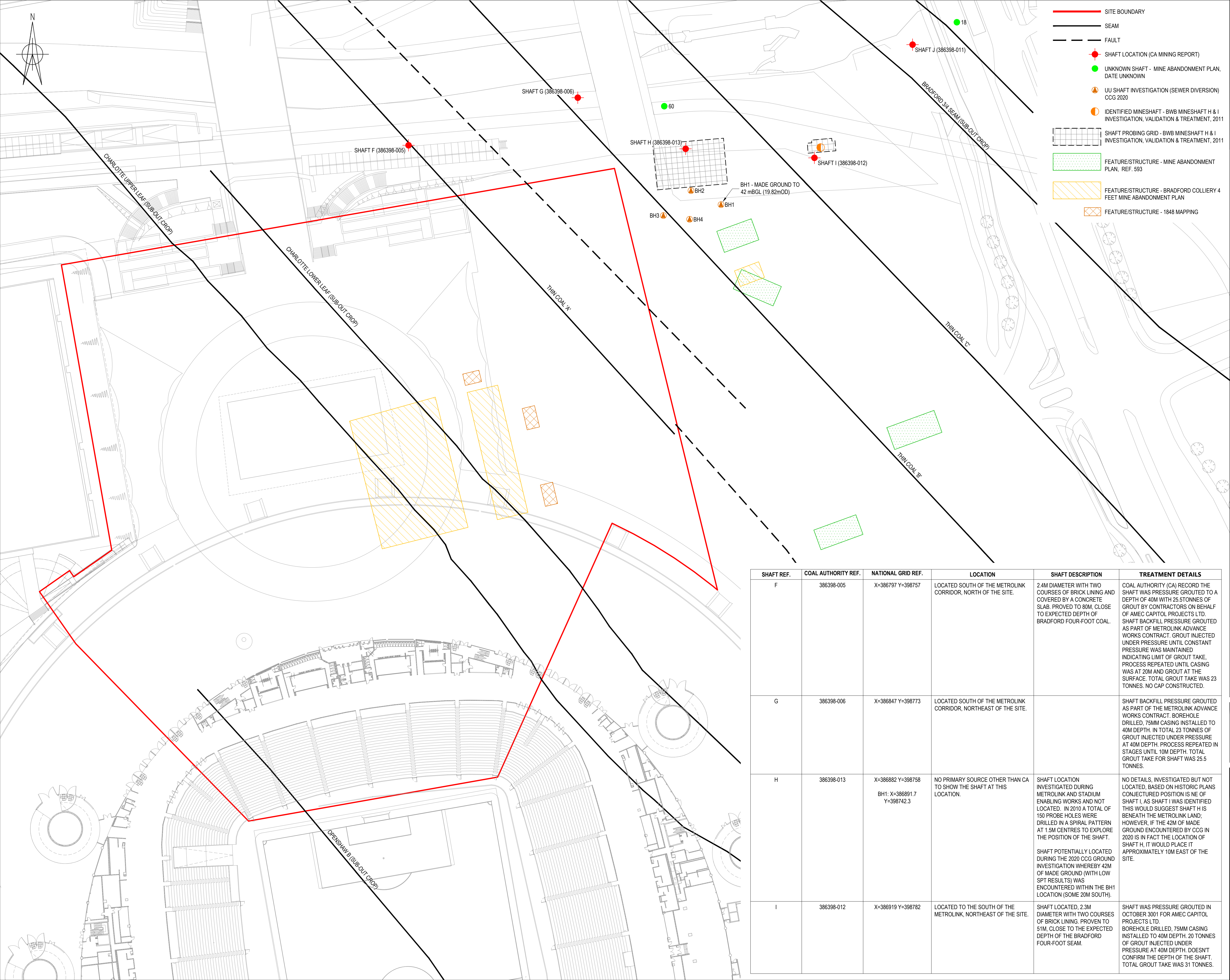
Job No. **0053810**

Date **FEB 2022**

Rev **P01**

Drawing No. **ETC-BHE-ZX-XX-DR-CG-1008**

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



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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.

SHAFT REF.	COAL AUTHORITY REF.	NATIONAL GRID REF.	LOCATION	SHAFT DESCRIPTION	TREATMENT DETAILS
F	386398-005	X=386797 Y=398757	LOCATED SOUTH OF THE METROLINK CORRIDOR, NORTH OF THE SITE.	2.4M DIAMETER WITH TWO COURSES OF BRICK LINING AND COVERED BY A CONCRETE SLAB. PROVED TO 80M, CLOSE TO EXPECTED DEPTH OF BRADFORD FOUR-FOOT COAL.	COAL AUTHORITY (CA) RECORD THE SHAFT WAS PRESSURE GROUTED TO A DEPTH OF 40M WITH 25.5TONNES OF GROUT BY CONTRACTORS ON BEHALF OF AMEC CAPITOL PROJECTS LTD. SHAFT BACKFILL PRESSURE GROUTED AS PART OF METROLINK ADVANCE WORKS CONTRACT. GROUT INJECTED UNDER PRESSURE UNTIL CONSTANT PRESSURE WAS MAINTAINED INDICATING LIMIT OF GROUT TAKE. PROCESS REPEATED UNTIL CASING WAS AT 20M AND GROUT AT THE SURFACE. TOTAL GROUT TAKE WAS 23 TONNES. NO CAP CONSTRUCTED.
G	386398-006	X=386847 Y=398773	LOCATED SOUTH OF THE METROLINK CORRIDOR, NORTHEAST OF THE SITE.		SHAFT BACKFILL PRESSURE GROUTED AS PART OF THE METROLINK ADVANCE WORKS CONTRACT. BOREHOLE DRILLED. 75MM CASING INSTALLED TO 40M DEPTH. IN TOTAL 23 TONNES OF GROUT INJECTED UNDER PRESSURE AT 40M DEPTH. PROCESS REPEATED IN STAGES UNTIL 10M DEPTH. TOTAL GROUT TAKE FOR SHAFT WAS 25.5 TONNES.
H	386398-013	X=386882 Y=398758 BH1: X=386891.7 Y=398742.3	NO PRIMARY SOURCE OTHER THAN CA TO SHOW THE SHAFT AT THIS LOCATION.	SHAFT LOCATION INVESTIGATED DURING METROLINK AND STADIUM ENABLING WORKS AND NOT LOCATED. IN 2010 A TOTAL OF 150 PROBE HOLES WERE DRILLED IN A SPIRAL PATTERN AT 1.5M CENTRES TO EXPLORE THE POSITION OF THE SHAFT. SHAFT POTENTIALLY LOCATED DURING THE 2020 CCG GROUND INVESTIGATION WHEREBY 42M OF MADE GROUND (WITH LOW SPT RESULTS) WAS ENCOUNTERED WITHIN THE BH1 LOCATION (SOME 20M SOUTH).	NO DETAILS, INVESTIGATED BUT NOT LOCATED, BASED ON HISTORIC PLANS CONJECTURED POSITION IS NE OF SHAFT I, AS SHAFT I WAS IDENTIFIED THIS WOULD SUGGEST SHAFT H IS BENEATH THE METROLINK LAND; HOWEVER, IF THE 42M OF MADE GROUND ENCOUNTERED BY CCG IN 2020 IS IN FACT THE LOCATION OF SHAFT H, IT WOULD PLACE IT APPROXIMATELY 10M EAST OF THE SITE.
I	386398-012	X=386919 Y=398782	LOCATED TO THE SOUTH OF THE METROLINK, NORTHEAST OF THE SITE.	SHAFT LOCATED, 2.3M DIAMETER WITH TWO COURSES OF BRICK LINING. PROVEN TO 51M, CLOSE TO THE EXPECTED DEPTH OF THE BRADFORD FOUR-FOOT SEAM.	SHAFT WAS PRESSURE GROUTED IN OCTOBER 2001 FOR AMEC CAPITOL PROJECTS LTD. BOREHOLE DRILLED. 75MM CASING INSTALLED TO 40M DEPTH. 20 TONNES OF GROUT INJECTED UNDER PRESSURE AT 40M DEPTH. DOESNT CONFIRM THE DEPTH OF THE SHAFT. TOTAL GROUT TAKE WAS 31 TONNES.

P03 BOUNDARY UPDATE. ISSUED FOR INFORMATION.	24.02.23	NG	FG	
P02 BOUNDARY UPDATE. ISSUED FOR INFORMATION.	03.02.23	NG	FG	
P01 INFORMATION	09.12.22	NG	FG	
Rev	Description	Date	Dm	Ch'd

INFORMATION

Status of drawing

BURO HAPPOLD

Camden Mill
Lower Bristol Road
Bath BA2 3DQ
UK

Tel: +44 (0)1225 320600
Fax: +44 (0)870 787 4148
Email: 0053810@burohappold.com
Web: www.burohappold.com

Architect

Project
Drg Title

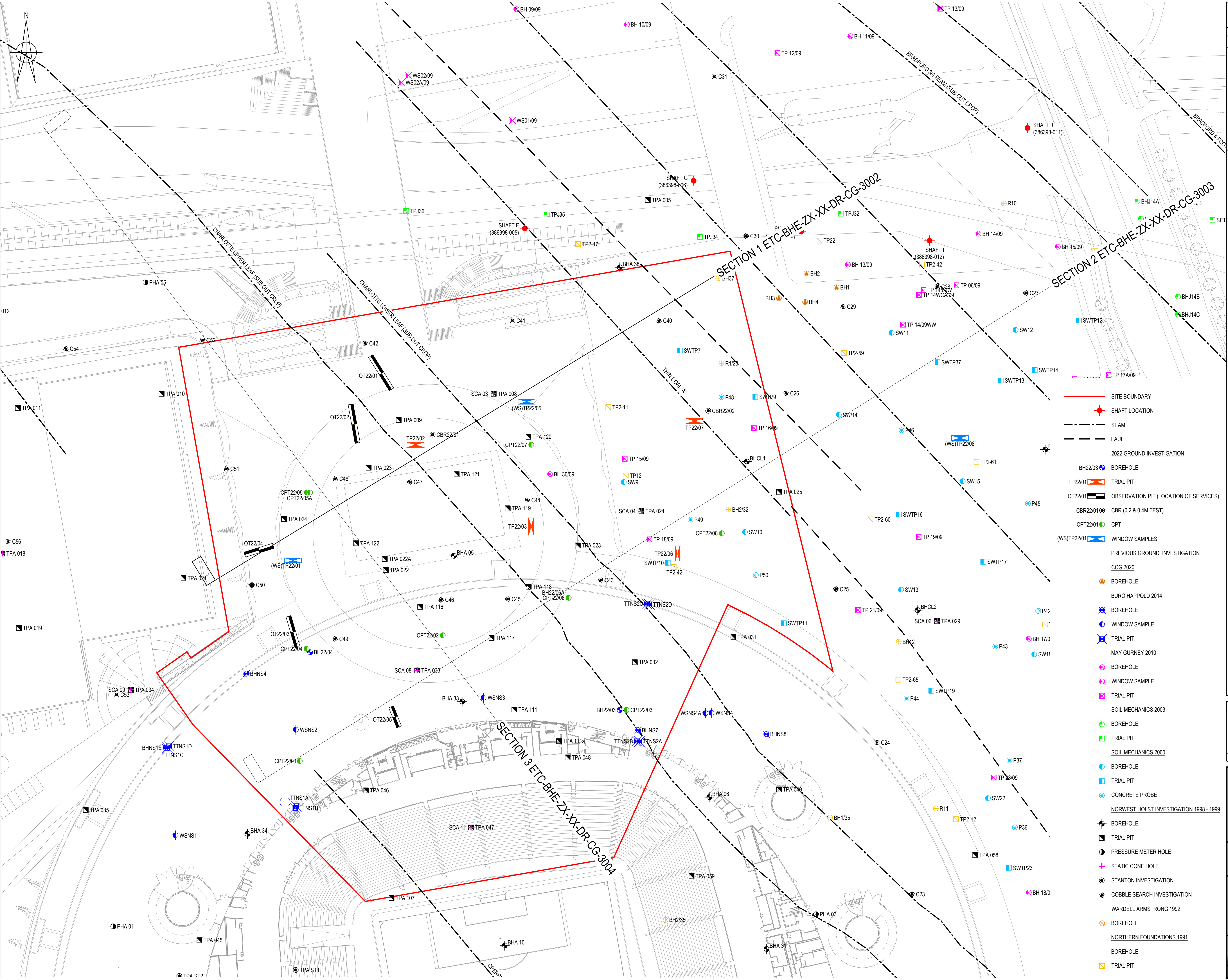
ETIHAD CAMPUS SITE IMPROVEMENT WORKS
MINING CONSTRAINTS PLAN

Scales@A1 1:5000
Drawn by NG
Checked by FG

Job No.
Date
Rev

0053810
DEC 2022
P03

Drawing No. ETG-BHE-ZX-XX-DR-CG-2002



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Notes

24.02.23 NG FG

Rev	Description	Date	Dm	Cr'd
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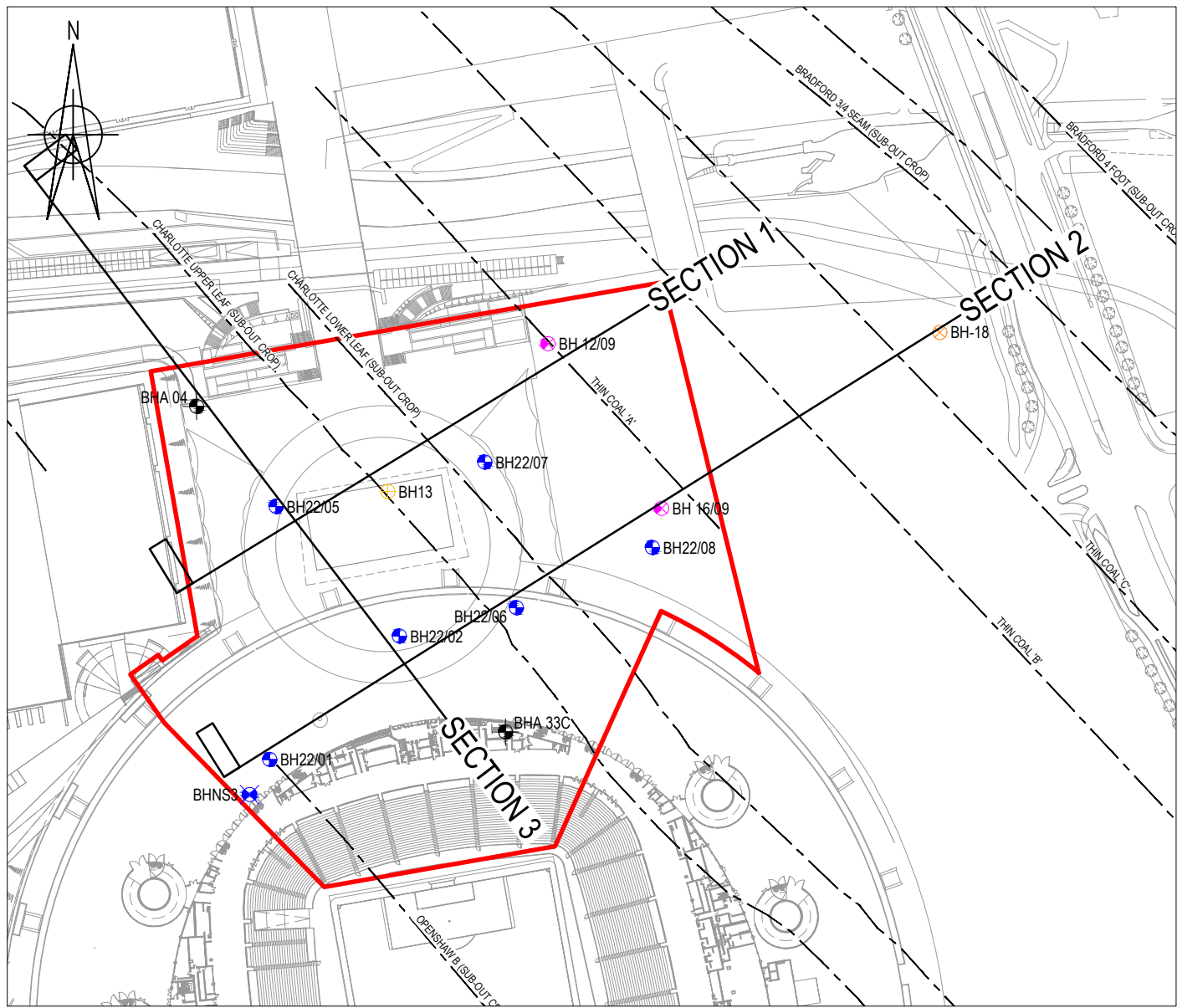
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Status of drawing

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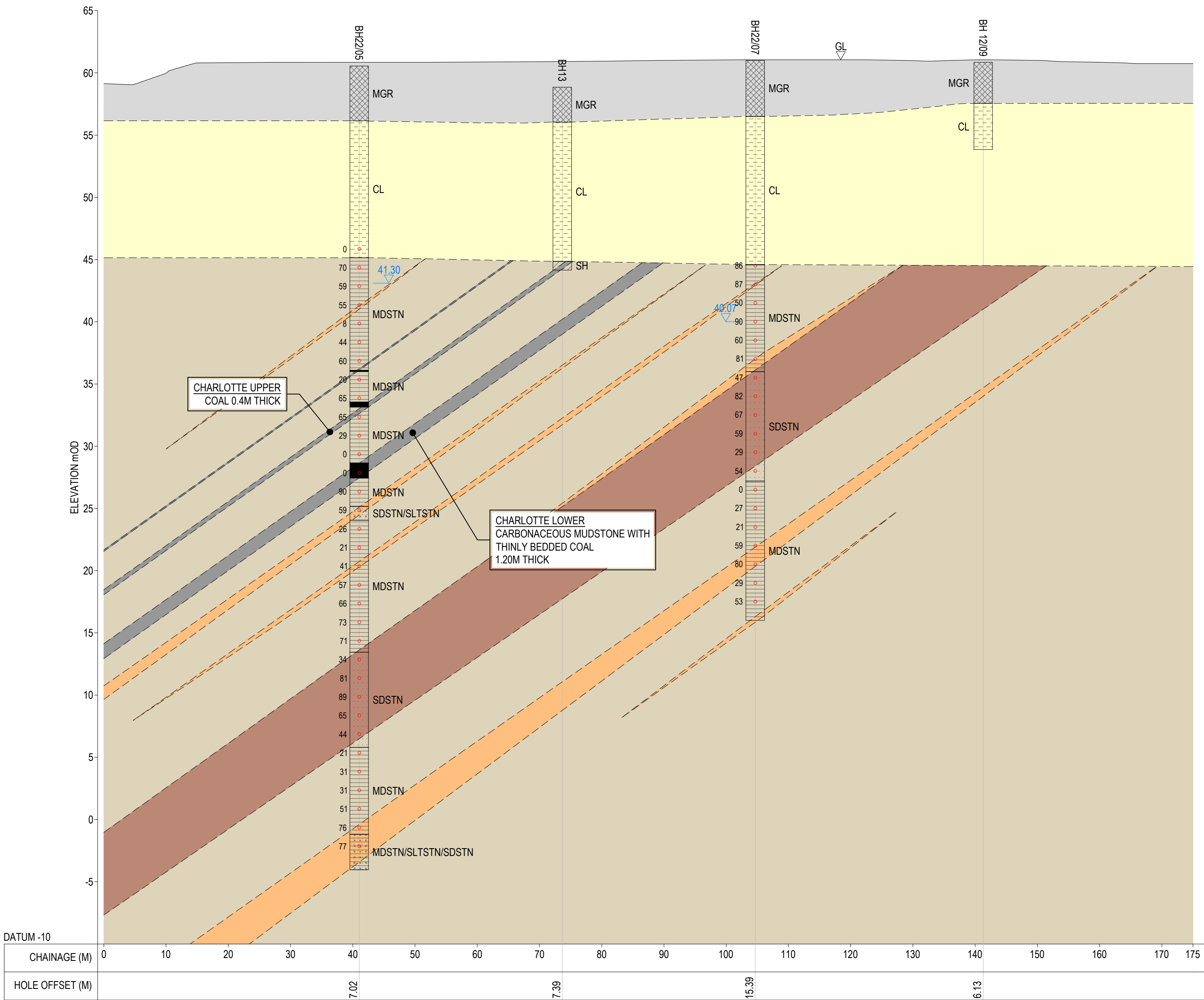
Camden Mill Lower Bristol Road Bath BA2 3DQ UK	Tel: +44 (0)1225 320600 Fax: +44 (0)870 787 4148 Email: 0053810@burohappold.com Web: www.burohappold.com
Architect	
Project	ETIHAD CAMPUS SITE IMPROVEMENT WORKS
Org Title	CROSS SECTION LOCATION PLAN

Scales@A1 1:500	Job No. 0053810
Drawn by NG	Date FEB 2023
Checked by FG	Rev P01
Drawing No. ETC-BHE-ZX-XX-DR-CG-3001	



- 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)
- MADE GROUND
- CLAY
- SAND
- SHALE
- SILTSTONE
- SANDSTONE
- MUDSTONE
- 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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Notes

POT INFORMATION 24.02.23 NG FG

Rev	Description	Date	Dm	Chd
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INFORMATION

Status of drawing

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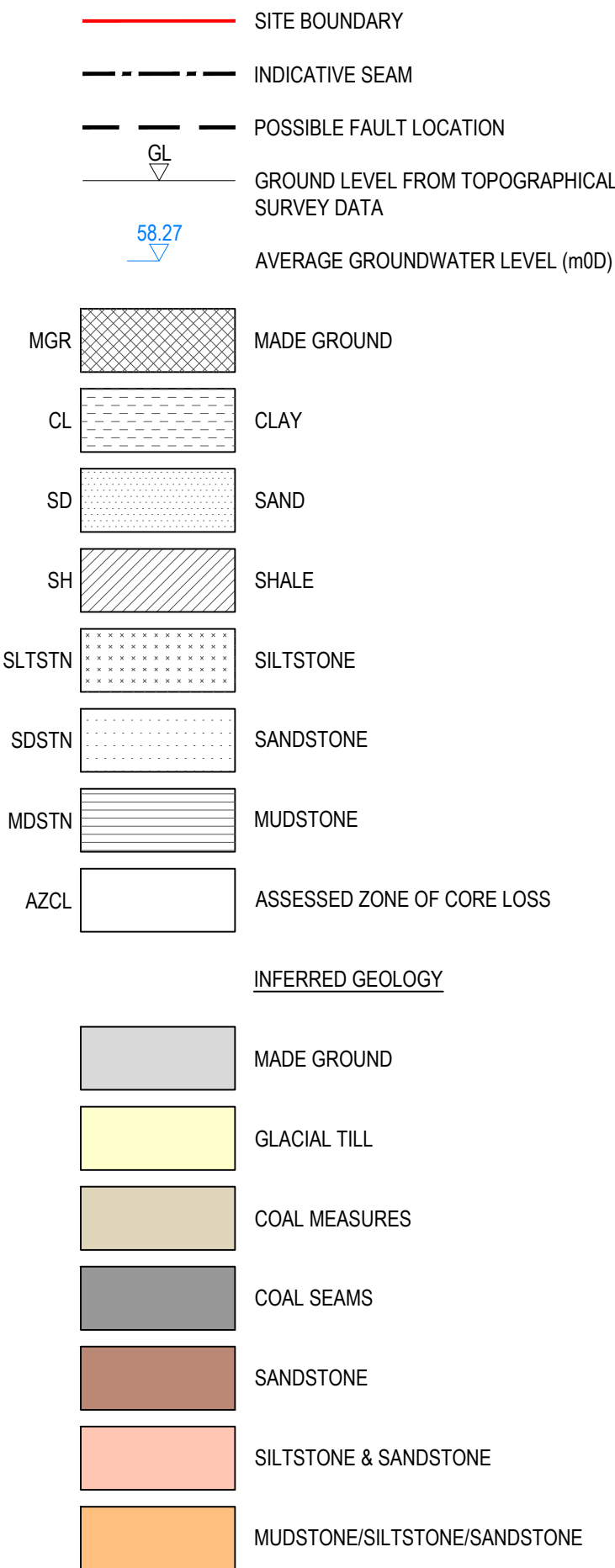
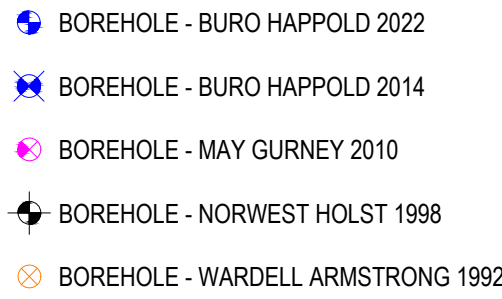
Camden Mill
Lower Bristol Road
Bath BA2 3DQ
UK

Tel: +44 (0)1225 320600
Fax: +44 (0)870 787 4148
Email: 0053810@burohappold.com
Web: www.burohappold.com

Architect
Project **ETIHAD CAMPUS SITE IMPROVEMENT WORKS**
Drg Title **GEOLOGICAL CROSS SECTIONS SHEET1**

Scales@A1 1:1250	Job No. 0053810
Drawn by NG	Date FEB 2023
Checked by FG	Rev P01

Drawing No. **ETC-BHE-ZX-XX-DR-CG-3002**



Notes

PO1 INFORMATION		24.02.23	NG	FG
Rev	Description	Date	Drn	Ch'd

INFORMATION

Status of drawing

BURO HAPPOLD

Architect	
Project	ETIHAD CAMPUS SITE IMPROVEMENT WORKS
Drg Title	GEOLOGICAL CROSS SECTIONS SHEET 3

Scales@A1 1:1250	Job No. 0053810
Drawn by NG	Date FEB 2023
Checked by FG	Rev P01

Drawing No. ETC-BHE-ZX-XX-DR-CG-3004

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 (Res_{i1}) and residential without plant uptake (Res_{i2}) 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. 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

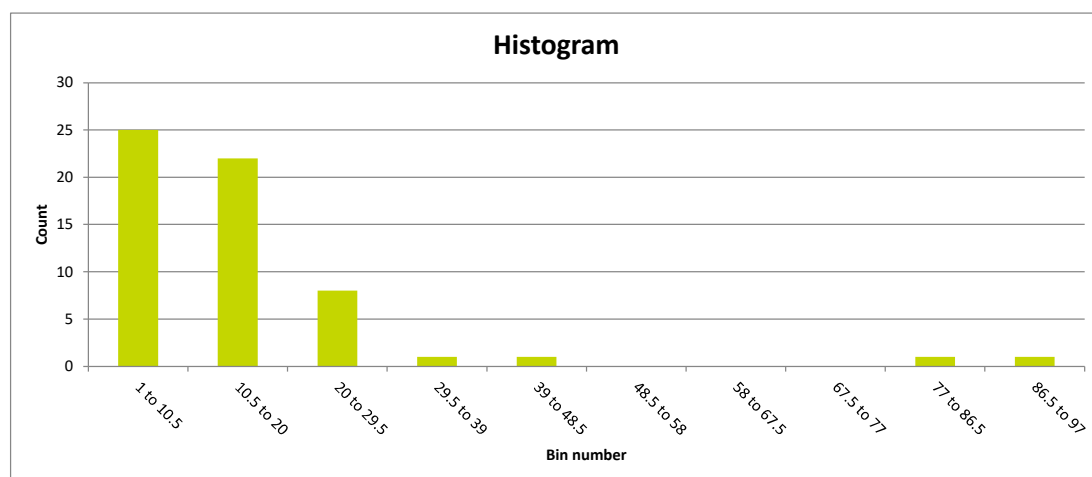
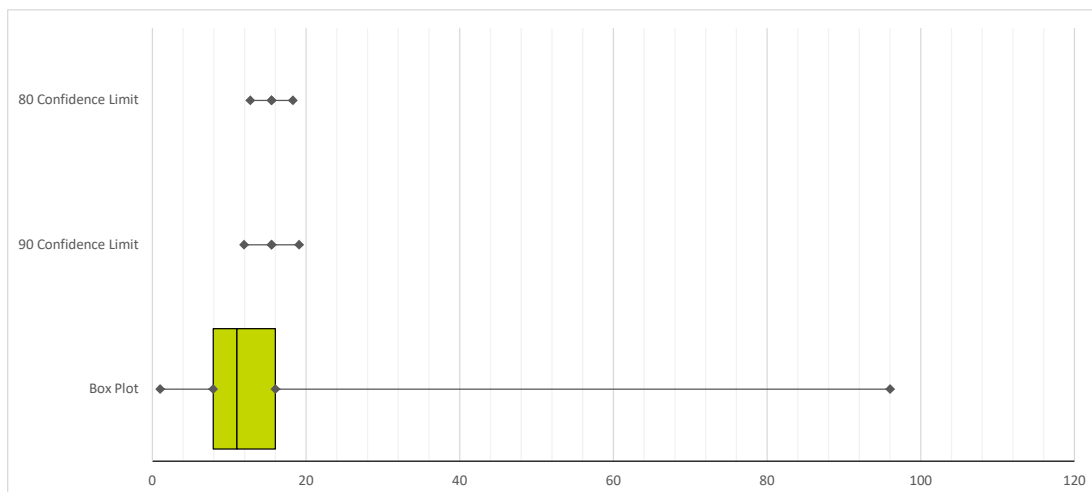
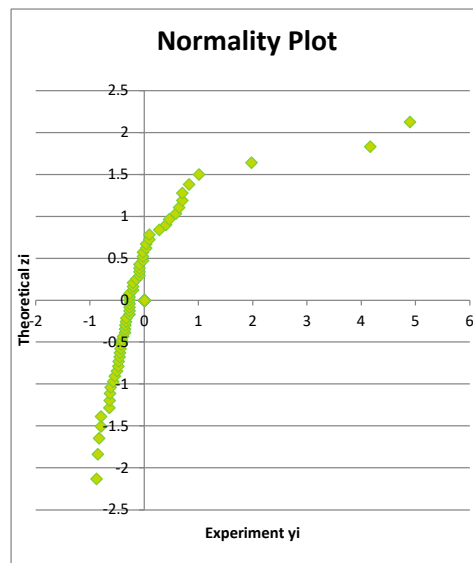
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Arithmetic Mean	15.50
Median	11.00
Lower Quartile	7.90
Upper Quartile	16.00

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

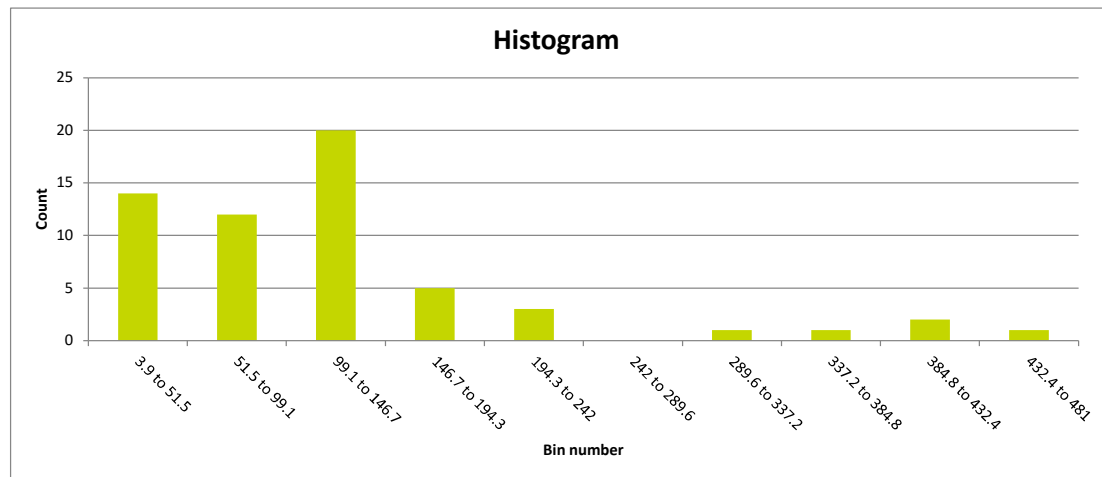
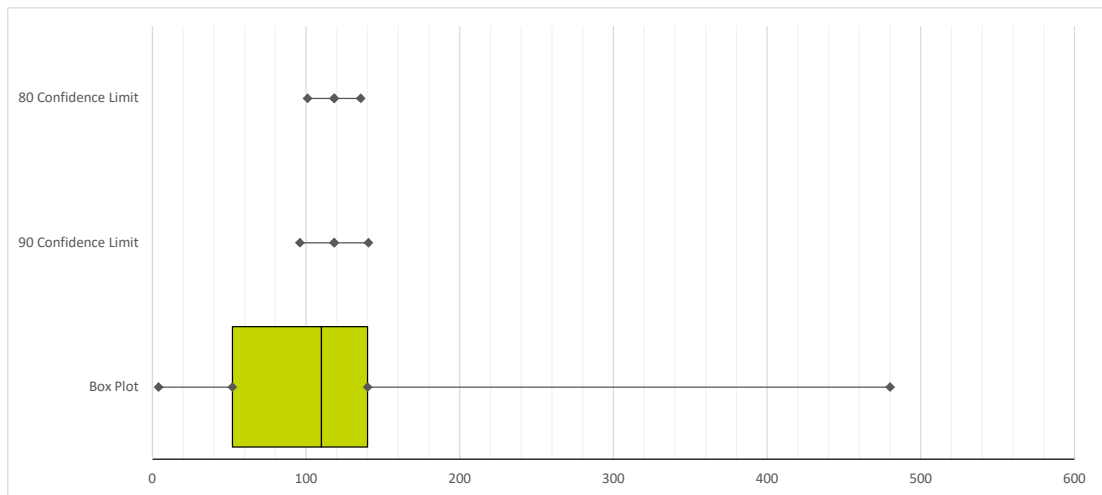
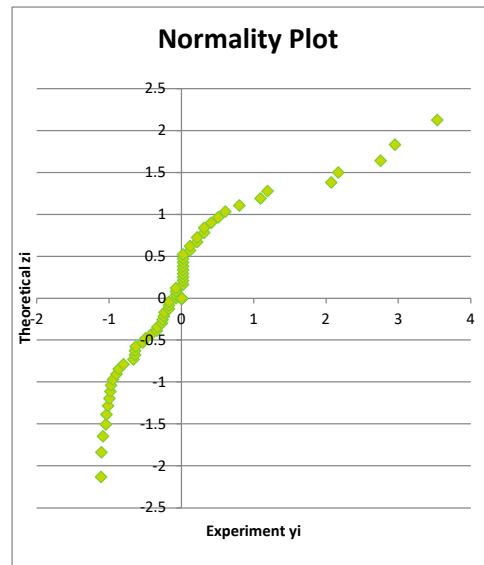
Statistics	
Total Tests	59
Number below detection limits	0
% below detection limits	0.0

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



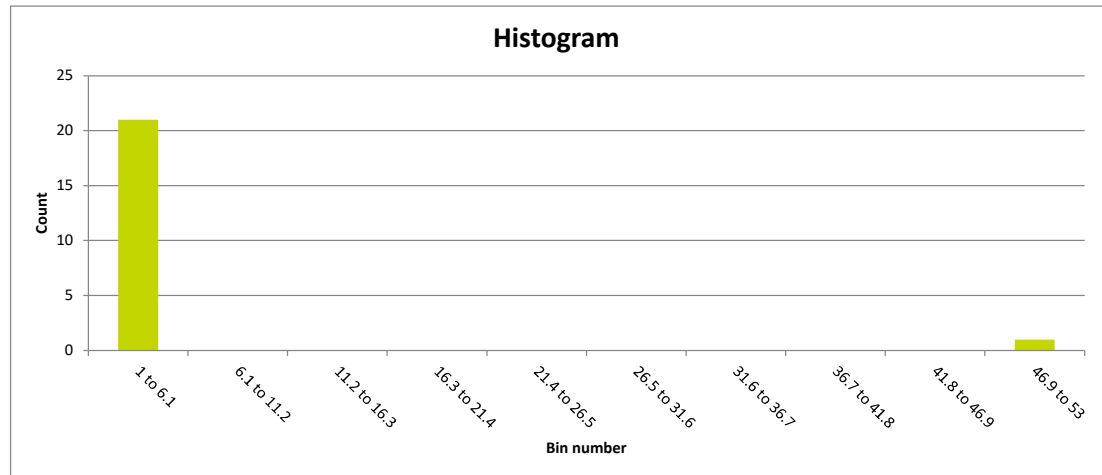
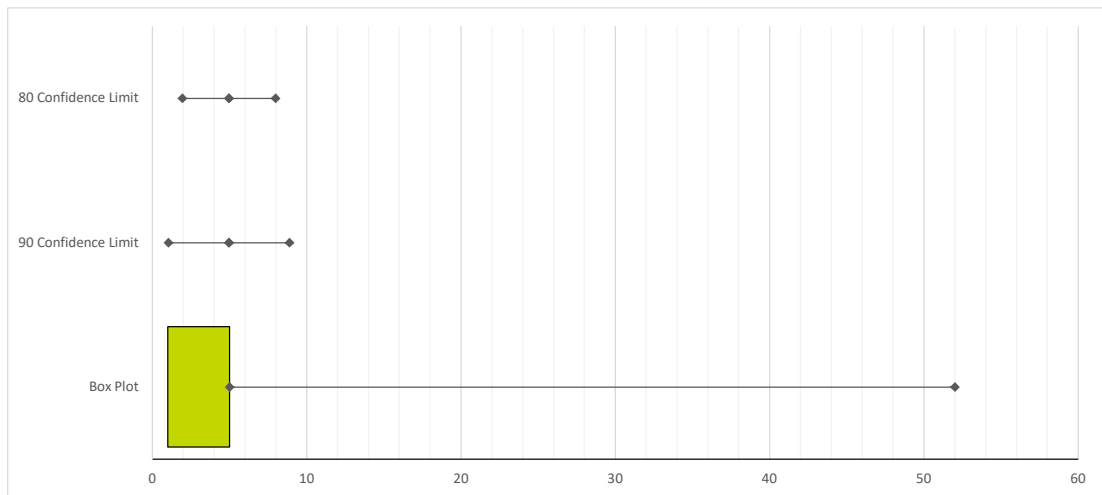
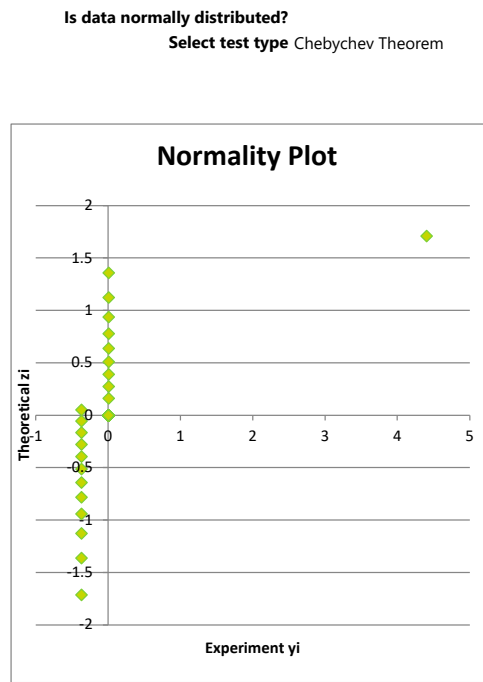
Select Chemical	Benzene
Confidence Limit for Outliers	0.05
Outer Confidence Limit for Mean	90
Inner Confidence Limit for Mean	80

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		



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

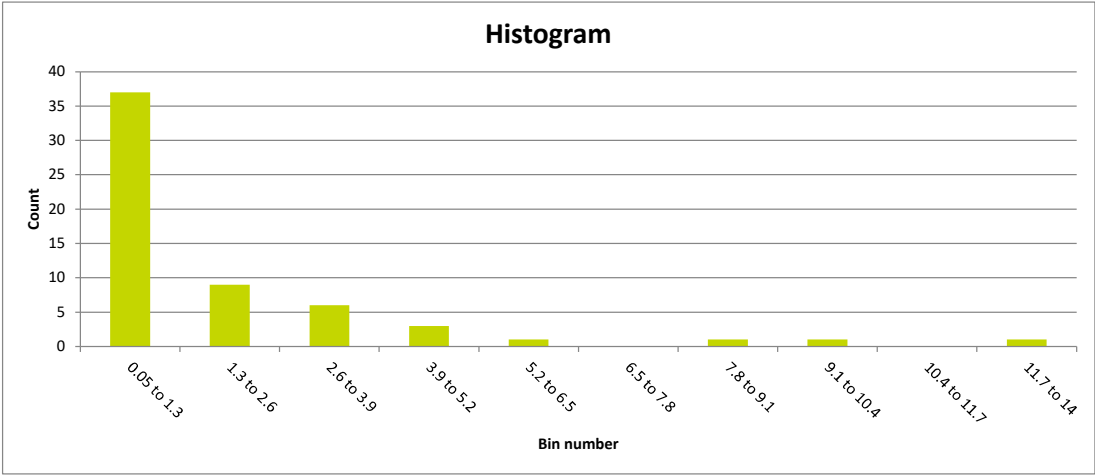
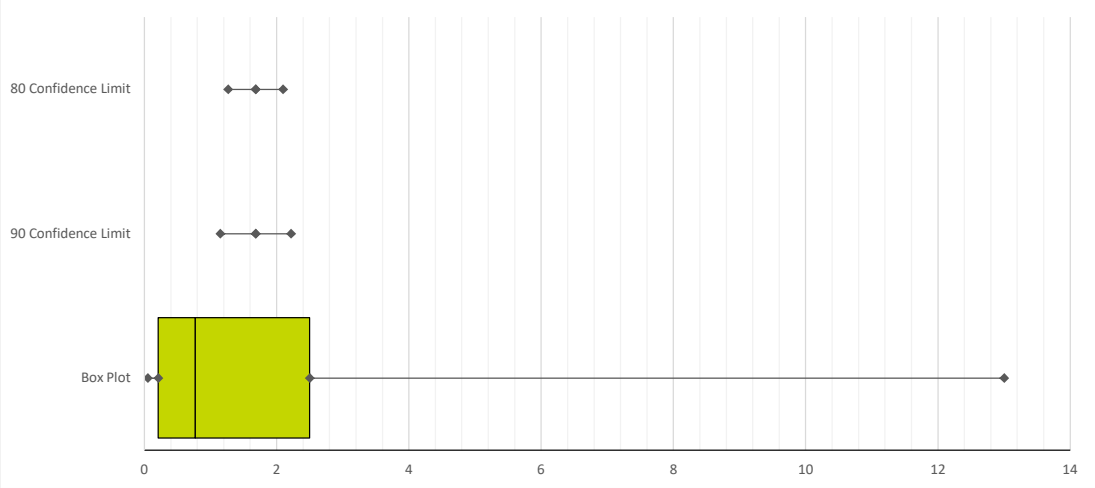
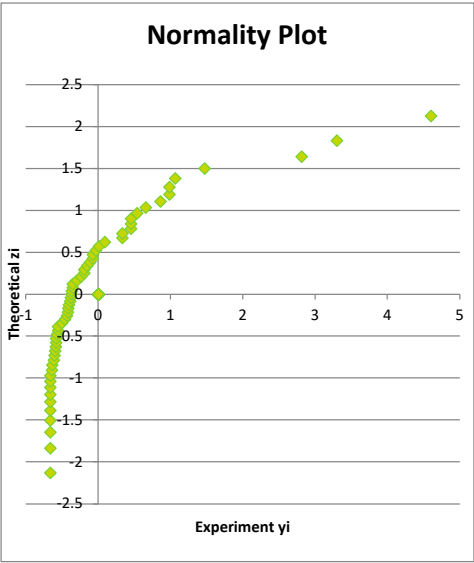
Statistics	
Total Tests	59
Number below detection limits	10
% below detection limits	16.9

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	TPH
Confidence Limit for Outliers	0.05
Outer Confidence Limit for Mean	90
Inner Confidence Limit for Mean	80

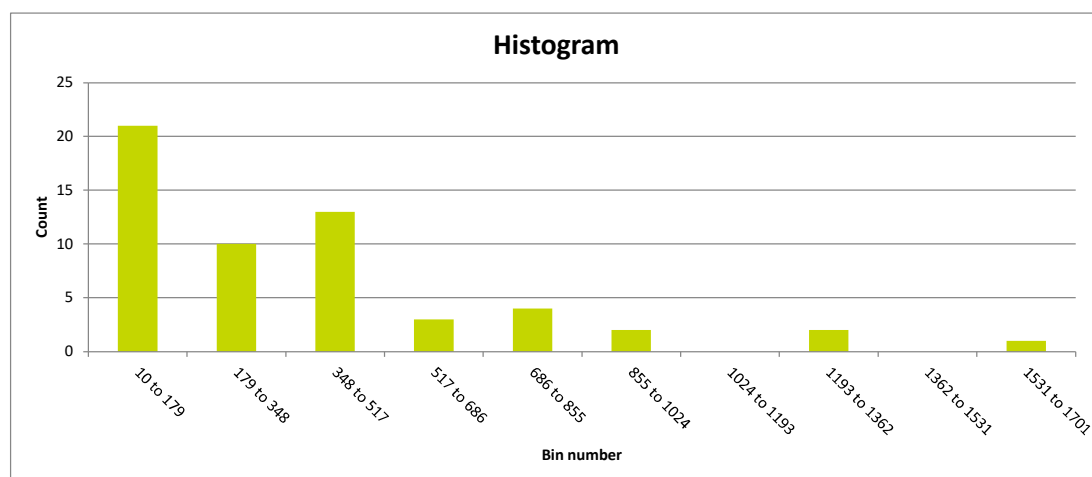
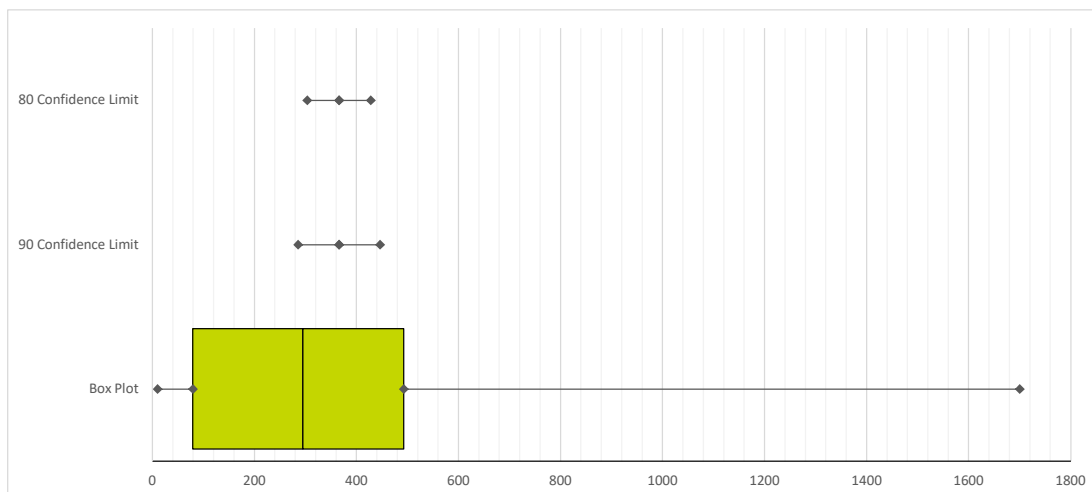
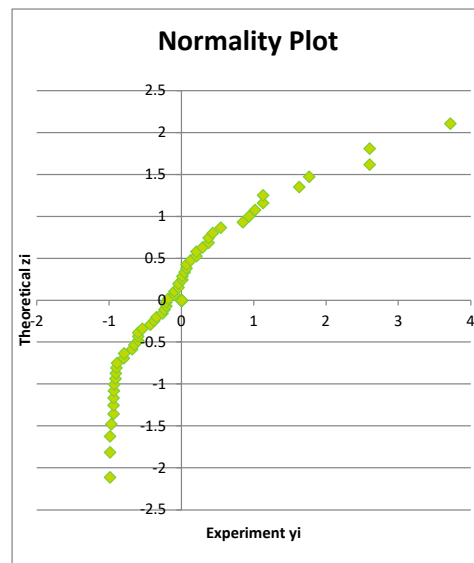
Statistics	
Total Tests	56
Number below detection limits	3
% below detection limits	5.4

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



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

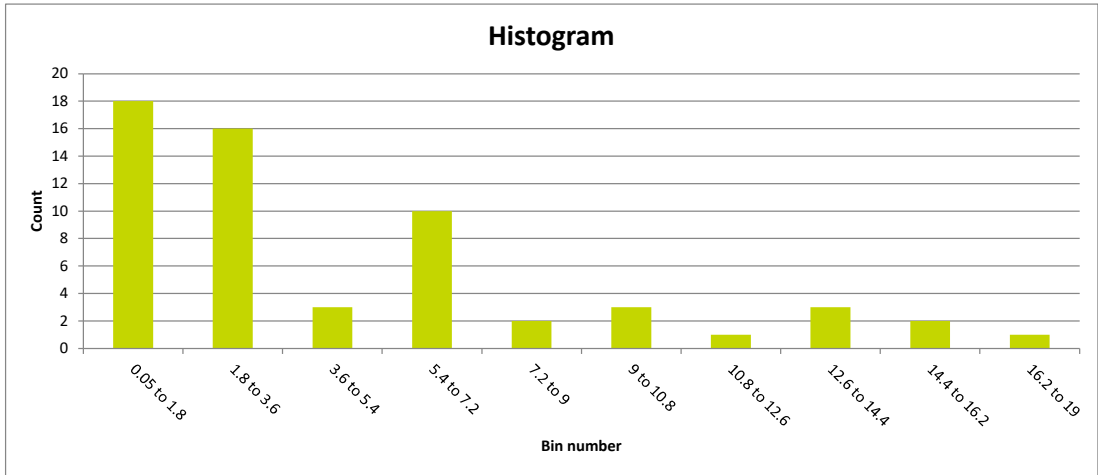
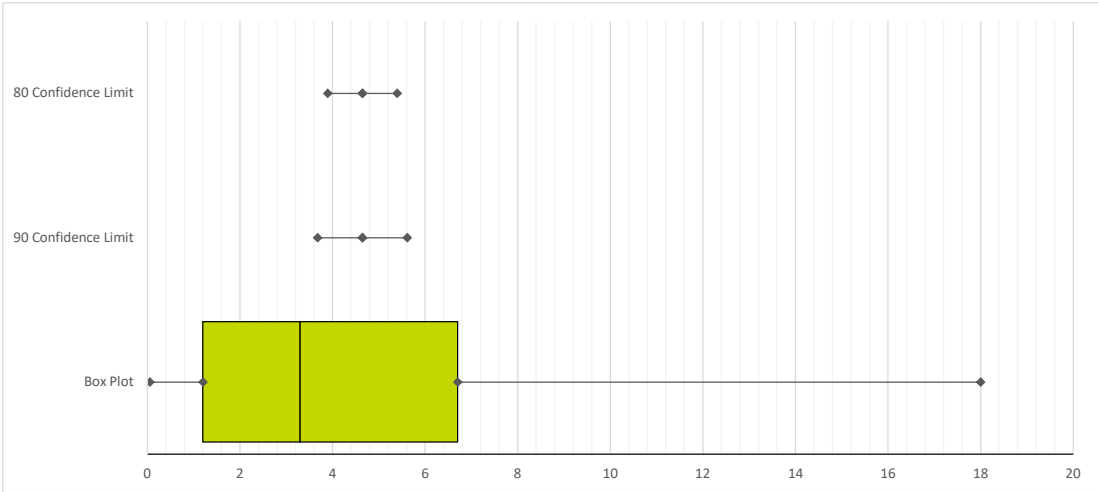
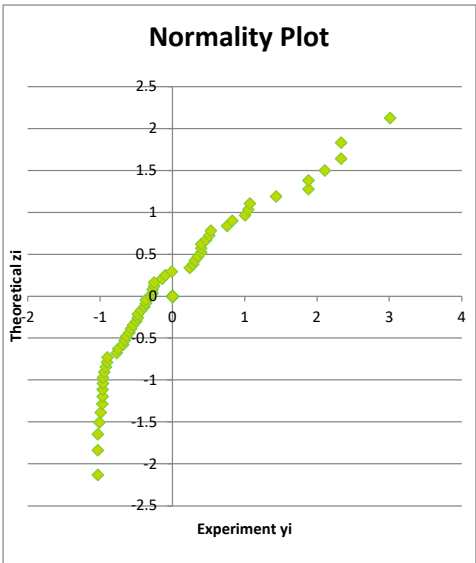
Statistics	
Total Tests	59
Number below detection limits	3
% below detection limits	5.1

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

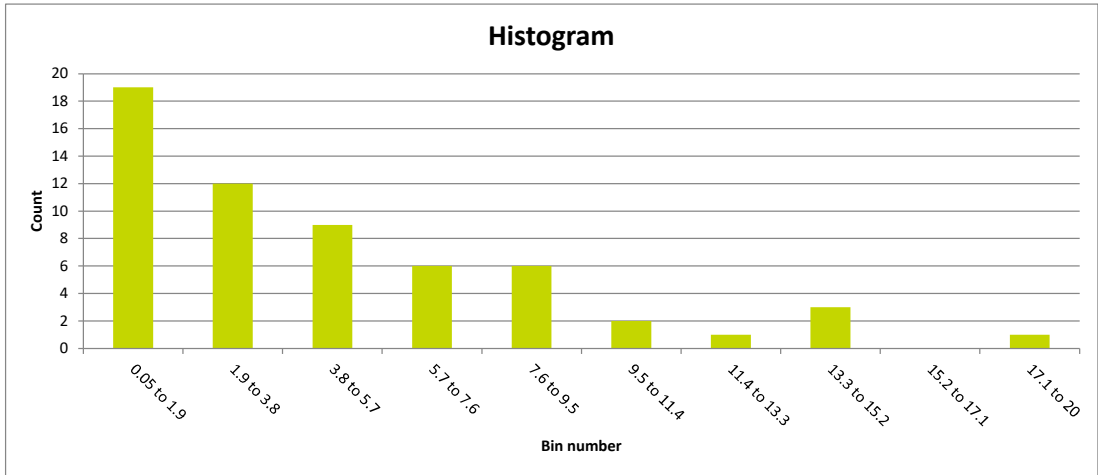
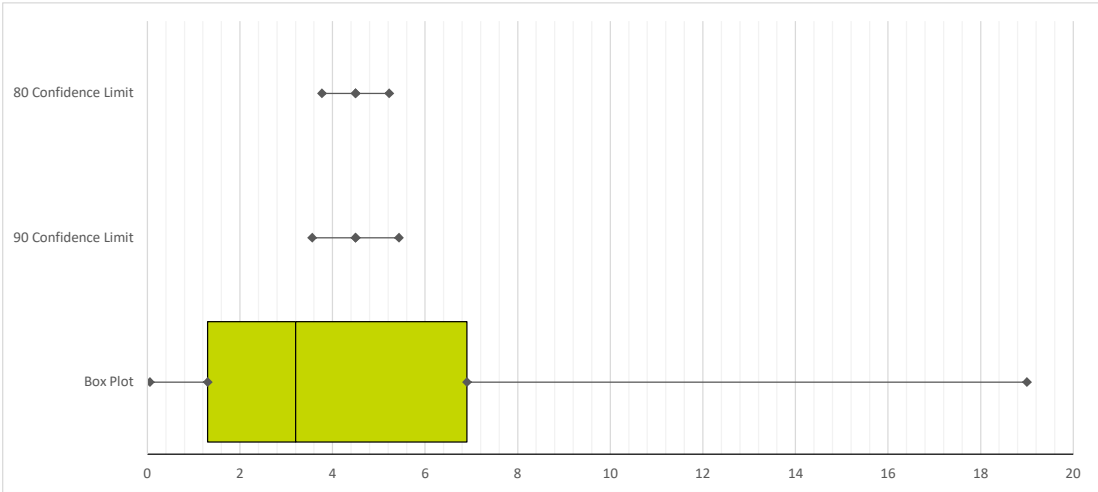
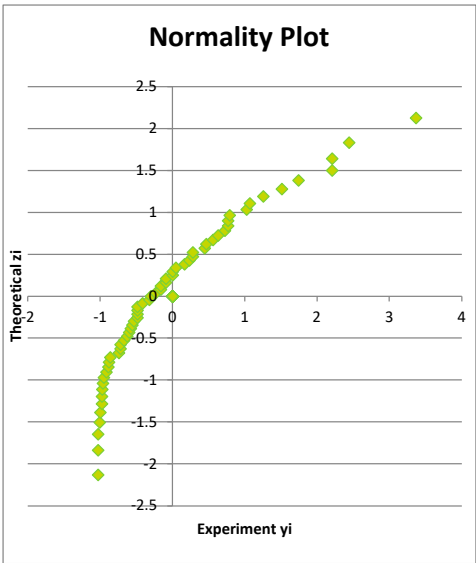
Is data normally distributed?
 Select test type Chebychev Theorem

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

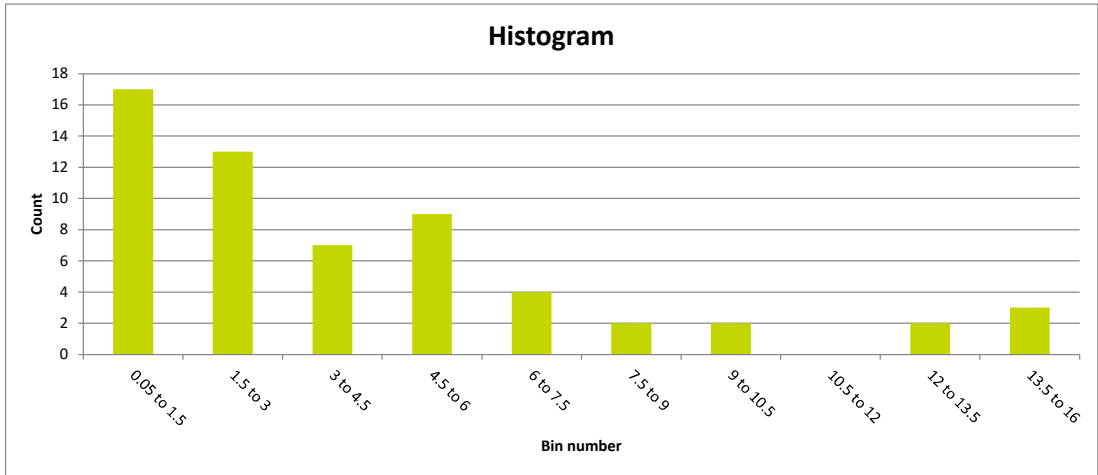
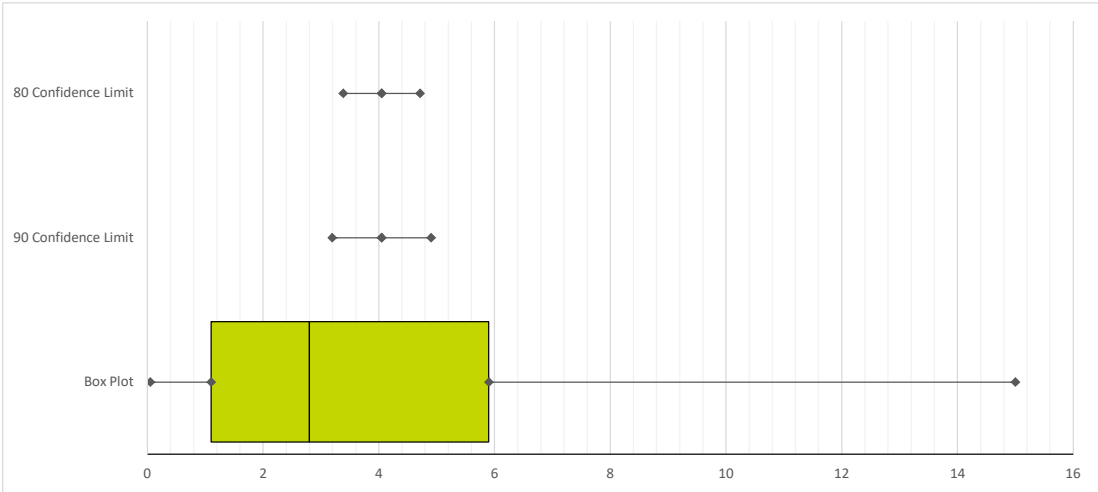
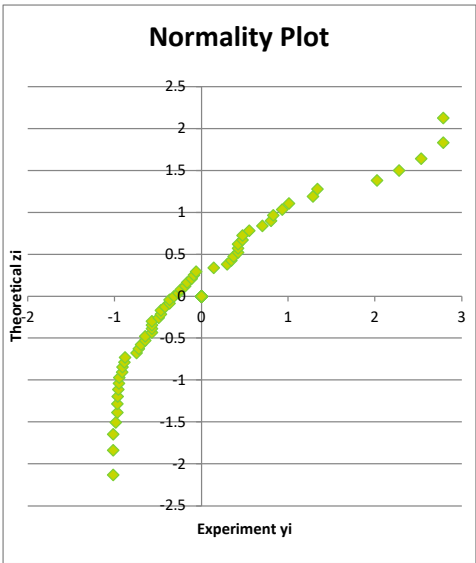
Statistics	
Total Tests	59
Number below detection limits	3
% below detection limits	5.1

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

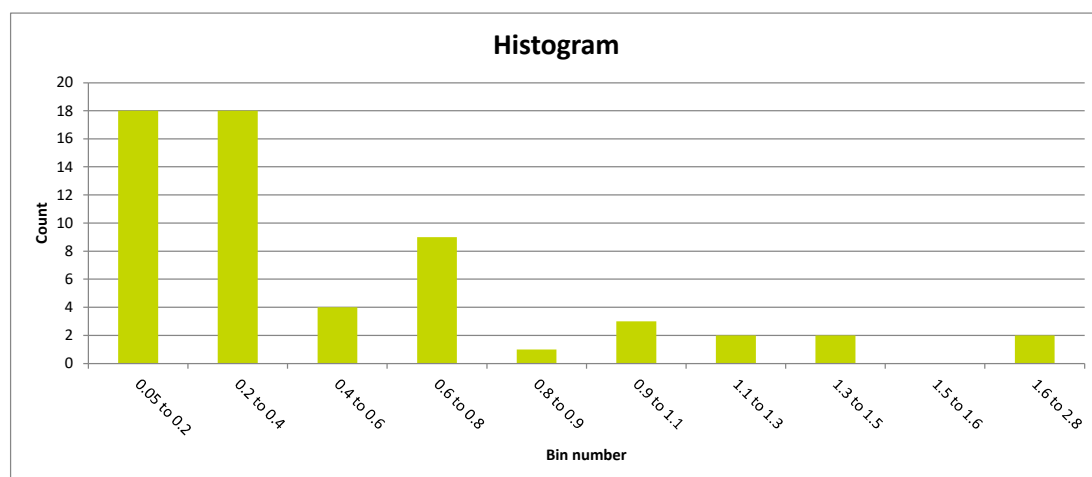
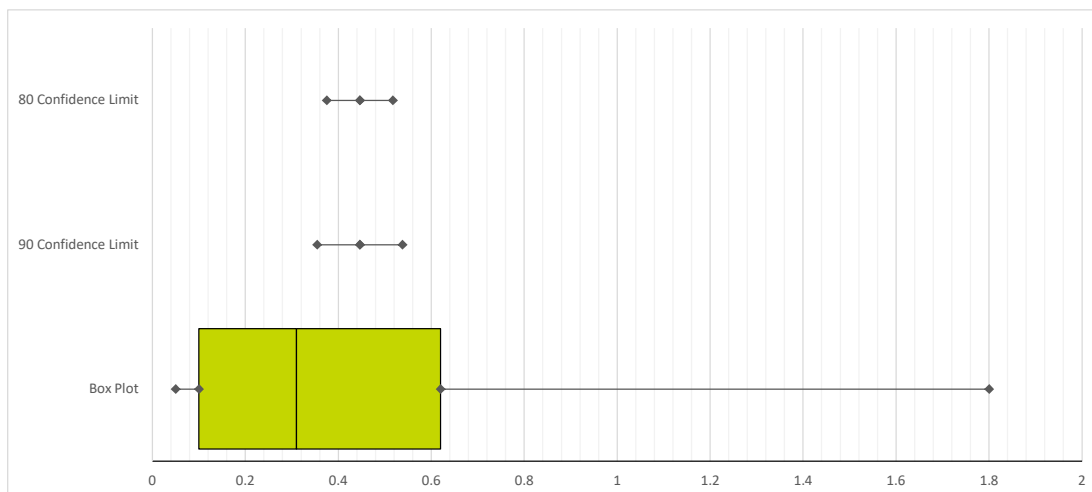
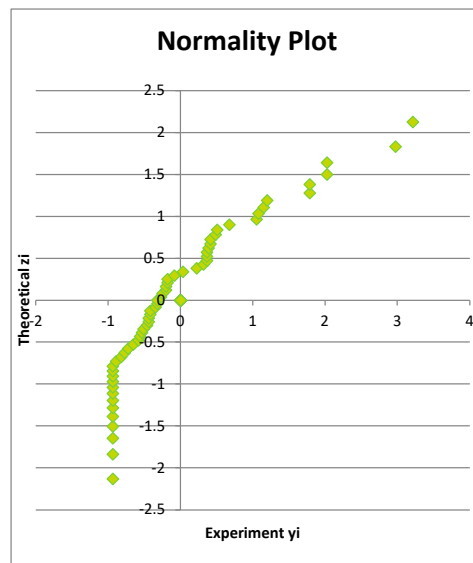
Statistics	
Total Tests	59
Number below detection limits	13
% below detection limits	22.0

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



Appendix D Groundwater Data

Feb-23

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) ⁵	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	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][†] 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)

[illegible]

Lower limit (lhr)		Upper limit (lhr)
0	1	0.07
0.07	2	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		

CO2			
Lower limit (l/hr)	Upper limit (l/hr)		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)



8Z7BK-E8S39-BB44T

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

Job name

Etihad Campus Site Improvement Works

Description/Comments

Project

0053810

Site

Manchester

Classified by

Name:

Francesca Gould

Date:

10 Jan 2023 16:08 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

Etihad 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		38
15	TP22/03[3]	2.00-2.25	Non Hazardous		41
16	OT22/02	0.90	Non Hazardous		43
17	TP22/06	0.00-0.20	Non Hazardous		45
18	TP22/06[2]	1.30-1.50	Non Hazardous		47
19	TP22/06[3]	2.00-2.20	Non Hazardous		50
20	TP22/07	0.20-0.40	Hazardous	HP 7, HP 8, HP 11	52
21	TP22/07[2]	1.00-1.20	Hazardous	HP 7, HP 11	55
22	TP22/07[3]	2.20-2.40	Non Hazardous		58
23	TP22/07[4]	3.70-3.90	Non Hazardous		61
24	BH22/06A[2]	3.70-3.90	Non Hazardous		63
25	BH22/06A[3]	4.20-4.40	Non Hazardous		65
26	(WS)TP22/08	0.50	Non Hazardous		67
27	(WS)TP22/08[2]	2.00	Non Hazardous		69
28	(WS) TP22-05	0.50	Non Hazardous		72
29	BH22/04[3]	3.20-3.40	Hazardous	HP 14	75
30	BH22/04[4]	4.50-4.70	Non Hazardous		78
31	(WS)TP22/01	0.50	Non Hazardous		80
32	(WS)TP22/01[2]	1.00	Non Hazardous		82
33	(WS)TP22/01[3]	1.80	Non Hazardous		84
34	BH22/01	3.50	Hazardous	HP 3(i), HP 7, HP 11	87
35	CPT22/08	0.20	Non Hazardous		90
36	CPT22/08[2]	1.00	Non Hazardous		92
37	BH22/01[2]	0.50	Non Hazardous		94
38	BH22/01[3]	1.00	Non Hazardous		96
39	CPT22/01	0.25	Non Hazardous		99
40	CPT22/01[2]	1.00	Hazardous	HP 7, HP 11	101
41	CPT22/03	0.35	Non Hazardous		104
42	CPT22/04	0.25	Non Hazardous		106
43	CPT22/04[2]	1.00	Non Hazardous		108
44	CPT22/02	0.45-0.60	Non Hazardous		111
45	CPT22/05	0.15-0.35	Non Hazardous		114
46	CPT22/06	0.50-0.70	Non Hazardous		116
47	CPT22/07	0.30-0.50	Non Hazardous		118
48	BH22/05	0.50	Non Hazardous		120
49	BH22/04[5]	0.50-0.70	Non Hazardous		122
50	BH22/03	0.90-1.10	Non Hazardous		125
51	BH22/02	0.90-1.10	Non Hazardous		128
52	BH22/06	0.90-1.10	Non Hazardous		131
53	BH22/08[4]	0.20	Non Hazardous		133
54	BH22/08[5]	1.00	Non Hazardous		135
55	BH22/03[2]	2.5	Non Hazardous		138
56	BH22/02[2]	3.50	Non Hazardous		140
57	BH22/02[3]	1.5	Non Hazardous		142
58	BH22/05[2]	1.90-2.10	Non Hazardous		145
59	BH22/05[3]	3.90-4.10	Non Hazardous		147

Related documents

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

Report

Created by: Francesca Gould

Created date: 10 Jan 2023 16:08 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	149
Appendix B: Rationale for selection of metal species	150
Appendix C: Version	151

Classification of sample: OT22/01



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

Sample details

Sample name:	LoW Code:
OT22/01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.30-1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/04	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 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 } 033-005-00-1				14 mg/kg	1.895	26.523 mg/kg		0.00265 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1 mg/kg	5.719	5.719 mg/kg		0.000572 %		
4	cadmium { cadmium oxide } 048-002-00-0	215-146-2	1306-19-0		0.9 mg/kg	1.142	1.028 mg/kg		0.000103 %		
5	chromium { chromium(III) oxide } 215-160-9		1308-38-9		32 mg/kg	1.462	46.77 mg/kg		0.00468 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg		<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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

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: BH22/06A


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

Sample details

Sample name:	LoW Code:
BH22/06A	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.6%	
(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] 234-343-4 [2]	10043-35-3 [1] 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 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		390 mg/kg		390 mg/kg	0.039 %		
16	naphthalene 601-052-00-2	202-049-5	91-20-3		1.6 mg/kg		1.6 mg/kg	0.00016 %		
17	acenaphthylene 205-917-1	208-96-8			0.26 mg/kg		0.26 mg/kg	0.000026 %		
18	acenaphthene 201-469-6	83-32-9			2.9 mg/kg		2.9 mg/kg	0.00029 %		
19	fluorene 201-695-5	86-73-7			2.4 mg/kg		2.4 mg/kg	0.00024 %		
20	phenanthrene 201-581-5	85-01-8			21 mg/kg		21 mg/kg	0.0021 %		
21	anthracene 204-371-1	120-12-7			5.7 mg/kg		5.7 mg/kg	0.00057 %		
22	fluoranthene 205-912-4	206-44-0			35 mg/kg		35 mg/kg	0.0035 %		
23	pyrene 204-927-3	129-00-0			33 mg/kg		33 mg/kg	0.0033 %		
24	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		15 mg/kg		15 mg/kg	0.0015 %		
25	chrysene 601-048-00-0	205-923-4	218-01-9		12 mg/kg		12 mg/kg	0.0012 %		
26	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		14 mg/kg		14 mg/kg	0.0014 %		
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		5.9 mg/kg		5.9 mg/kg	0.00059 %		
28	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		13 mg/kg		13 mg/kg	0.0013 %		
29	indeno[123-cd]pyrene 205-893-2	193-39-5			6.6 mg/kg		6.6 mg/kg	0.00066 %		
30	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		1.2 mg/kg		1.2 mg/kg	0.00012 %		
31	benzo[ghi]perylene 205-883-8	191-24-2			7.5 mg/kg		7.5 mg/kg	0.00075 %		
32	pH PH				11.2 pH		11.2 pH	11.2 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."

Because of determinand:

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:
TP22/02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.007 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 } 033-005-00-1				14 mg/kg	1.895	26.523 mg/kg	0.00265 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.4 mg/kg	5.719	8.007 mg/kg	0.000801 %		
4	cadmium { cadmium oxide } 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 } 215-160-9		1308-38-9		34 mg/kg	1.462	49.693 mg/kg	0.00497 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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:

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:
TP22/02[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00-1.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

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:
TP22/02[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.50-2.60 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/08	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.027 mg/kg		0.027 mg/kg	0.0000027 %		
2	arsenic { arsenic acid and its salts with the exception of those specified elsewhere in this Annex } 033-005-00-1				20 mg/kg	1.895	37.89 mg/kg	0.00379 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		4.6 mg/kg	5.719	26.308 mg/kg	0.00263 %		
4	cadmium { cadmium oxide } 048-002-00-0	215-146-2	1306-19-0		1.2 mg/kg	1.142	1.371 mg/kg	0.000137 %		
5	chromium { chromium(III) oxide } 215-160-9		1308-38-9		64 mg/kg	1.462	93.54 mg/kg	0.00935 %		
6	copper { copper(II) oxide } 029-016-00-6	215-269-1	1317-38-0		71 mg/kg	1.252	88.876 mg/kg	0.00889 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) } 082-001-00-6			1	160 mg/kg		160 mg/kg	0.016 %		
8	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 030-013-00-7	215-222-5	1314-13-2		350 mg/kg	1.245	435.65 mg/kg	0.0436 %		
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				1.5 mg/kg	1.884	2.826 mg/kg	0.000283 %		

#	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:
BH22/08[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.025 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 } 033-005-00-1				11 mg/kg	1.895	20.84 mg/kg	0.00208 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		3 mg/kg	5.719	17.158 mg/kg	0.00172 %		
4	cadmium { cadmium oxide } 048-002-00-0	215-146-2	1306-19-0		0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %		
5	chromium { chromium(III) oxide } 215-160-9		1308-38-9		36 mg/kg	1.462	52.616 mg/kg	0.00526 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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:
BH22/08[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<0.001 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 } 033-005-00-1				7.6 mg/kg	1.895	14.398 mg/kg	0.00144 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		0.7 mg/kg	5.719	4.003 mg/kg	0.0004 %		
4	cadmium { cadmium oxide } 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 } 215-160-9		1308-38-9		26 mg/kg	1.462	38 mg/kg	0.0038 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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:
BH22/04[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/07	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17%	
(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] 234-343-4 [2]	10043-35-3 [1] 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; 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:
BH22/07[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(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] 234-343-4 [2]	10043-35-3 [1] 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				10.1 pH		10.1 pH	10.1 pH		
			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:
TP22/03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40-1.25 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
8.1%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
TP22/03[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.25-1.80 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(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] 234-343-4 [2]	10043-35-3 [1] 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."

Because of determinand:

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:
TP22/03[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.00-2.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.3%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
OT22/02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.7%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
TP22/06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.00-0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

Fam. 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:
TP22/06[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.30-1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

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:
TP22/06[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.00-2.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
TP22/07	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.20-0.40 m	
Moisture content:	
8.2%	
(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 }		12001-29-5								
	033-005-00-1										

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
3	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] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]									
4	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									
5	chromium { chromium(III) oxide }				30	mg/kg	1.462	43.847	mg/kg	0.00438 %		
		215-160-9	1308-38-9									
6	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									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	84	mg/kg		84	mg/kg	0.0084 %		
	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 }				22	mg/kg	2.976	65.478	mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc oxide }				190	mg/kg	1.245	236.496	mg/kg	0.0236 %		
	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	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		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:	
TP22/07[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
1.00-1.20 m		
Moisture content:		
8.5%		
(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] 234-343-4 [2]	10043-35-3 [1] 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:
TP22/07[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.20-2.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(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] 234-343-4 [2]	10043-35-3 [1] 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.

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: TP22/07[4]


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

Sample details

Sample name:	LoW Code:
TP22/07[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.70-3.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

Fam. 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:
BH22/06A[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.70-3.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/06A[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.20-4.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
(WS)TP22/08	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.4%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
(WS)TP22/08[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(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] 234-343-4 [2]	10043-35-3 [1] 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."

Because of determinand:

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:
(WS) TP22-05	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.6%	
(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] 234-343-4 [2]	10043-35-3 [1] 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.

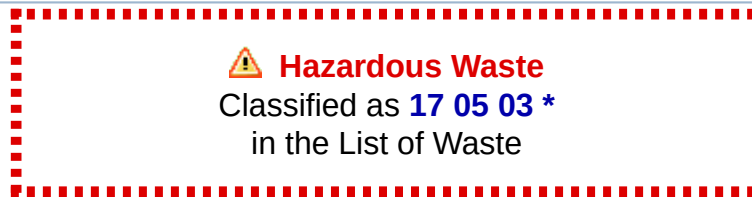
Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH22/04[3]



Sample details

Sample name:	LoW Code:
BH22/04[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.20-3.40 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
16%	
(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] 234-343-4 [2]	10043-35-3 [1] 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(j): 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.: 0.056%)

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:
BH22/04[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
4.50-4.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
(WS)TP22/01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
(WS)TP22/01[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
(WS)TP22/01[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.80 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.7%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

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:	
BH22/01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
3.50 m		
Moisture content:		
23%		
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/08	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/08[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/01[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.8%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/01[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00 m	
Moisture content:	
17%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.002 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 } 033-005-00-1				23 mg/kg	1.895	43.574 mg/kg	0.00436 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		2.8 mg/kg	5.719	16.014 mg/kg	0.0016 %		
4	cadmium { cadmium oxide } 048-002-00-0	215-146-2	1306-19-0		0.9 mg/kg	1.142	1.028 mg/kg	0.000103 %		
5	chromium { chromium(III) oxide } 215-160-9		1308-38-9		36 mg/kg	1.462	52.616 mg/kg	0.00526 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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:
CPT22/01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.7%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/01[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
12%	
(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] 234-343-4 [2]	10043-35-3 [1] 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
<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.: 0.1%)

Classification of sample: CPT22/03



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

Sample details

Sample name:	LoW Code:
CPT22/03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.35 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/04	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.3%	
(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] 234-343-4 [2]	10043-35-3 [1] 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	56-55-3	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	chrysene	601-048-00-0	205-923-4	218-01-9	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<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	50-32-8	<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	53-70-3	<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	108-95-2	<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:
CPT22/04[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(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] 234-343-4 [2]	10043-35-3 [1] 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.

Hazard Statements hit:

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

Because of determinand:

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:
CPT22/02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.45-0.60 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/05	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15-0.35 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.4%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50-0.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.8%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
CPT22/07	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30-0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.2%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/05	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6.5%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/04[5]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50-0.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.002 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 } 033-005-00-1				26 mg/kg	1.895	49.258 mg/kg	0.00493 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		2 mg/kg	5.719	11.438 mg/kg	0.00114 %		
4	cadmium { cadmium oxide } 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 } 215-160-9		1308-38-9		33 mg/kg	1.462	48.231 mg/kg	0.00482 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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."

Because of determinand:

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:
BH22/03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90-1.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(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] 234-343-4 [2]	10043-35-3 [1] 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.

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: BH22/02



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

Sample details

Sample name:	LoW Code:
BH22/02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90-1.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
6.5%	
(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 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.001 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 } 033-005-00-1				4.9 mg/kg	1.895	9.283 mg/kg	0.000928 %		
3	boron { boric acid; [1] boric acid [2] } 005-007-00-2	233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]		1.2 mg/kg	5.719	6.863 mg/kg	0.000686 %		
4	cadmium { cadmium oxide } 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 } 215-160-9		1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
6	copper { copper(II) oxide } 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) } 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 } 080-002-00-6			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
9	nickel { nickel chromate } 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 } 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 } 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."

Because of determinand:

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:
BH22/06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90-1.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.5%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

Fam. 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:
BH22/08[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

Fam. 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:
BH22/08[5]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(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] 234-343-4 [2]	10043-35-3 [1] 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 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		700 mg/kg		700 mg/kg	0.07 %		
16	naphthalene 601-052-00-2	202-049-5	91-20-3		2.8 mg/kg		2.8 mg/kg	0.00028 %		
17	acenaphthylene	205-917-1	208-96-8		0.24 mg/kg		0.24 mg/kg	0.000024 %		
18	acenaphthene	201-469-6	83-32-9		1.7 mg/kg		1.7 mg/kg	0.00017 %		
19	fluorene	201-695-5	86-73-7		1.3 mg/kg		1.3 mg/kg	0.00013 %		
20	phenanthrene	201-581-5	85-01-8		8.4 mg/kg		8.4 mg/kg	0.00084 %		
21	anthracene	204-371-1	120-12-7		2.1 mg/kg		2.1 mg/kg	0.00021 %		
22	fluoranthene	205-912-4	206-44-0		8.6 mg/kg		8.6 mg/kg	0.00086 %		
23	pyrene	204-927-3	129-00-0		8.6 mg/kg		8.6 mg/kg	0.00086 %		
24	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		4 mg/kg		4 mg/kg	0.0004 %		
25	chrysene 601-048-00-0	205-923-4	218-01-9		3.8 mg/kg		3.8 mg/kg	0.00038 %		
26	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		4.5 mg/kg		4.5 mg/kg	0.00045 %		
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		1.2 mg/kg		1.2 mg/kg	0.00012 %		
28	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		3.8 mg/kg		3.8 mg/kg	0.00038 %		
29	indeno[123-cd]pyrene	205-893-2	193-39-5		1.8 mg/kg		1.8 mg/kg	0.00018 %		
30	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.36 mg/kg		0.36 mg/kg	0.000036 %		
31	benzo[ghi]perylene	205-883-8	191-24-2		2.2 mg/kg		2.2 mg/kg	0.00022 %		
32	pH		PH		10.1 pH		10.1 pH	10.1 pH		
33	phenol 604-001-00-2	203-632-7	108-95-2		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
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:

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

Because of determinand:

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:
BH22/03[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
19%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/02[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/02[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:

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

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:
BH22/05[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.90-2.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18%	
(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] 234-343-4 [2]	10043-35-3 [1] 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:
BH22/05[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.90-4.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
24%	
(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] 234-343-4 [2]	10043-35-3 [1] 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 (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: 2023.4.5471.10145 (04 Jan 2023)

HazWasteOnline Database: 2023.4.5471.10145 (04 Jan 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

Francesca Gould
Buro Happold Limited
17 Newman Street
London
W1T 1PD
UK

T: +44 (0)207 927 9700

F: +44 (0)870 787 4145

Email: Francesca.Gould@burohappold.com