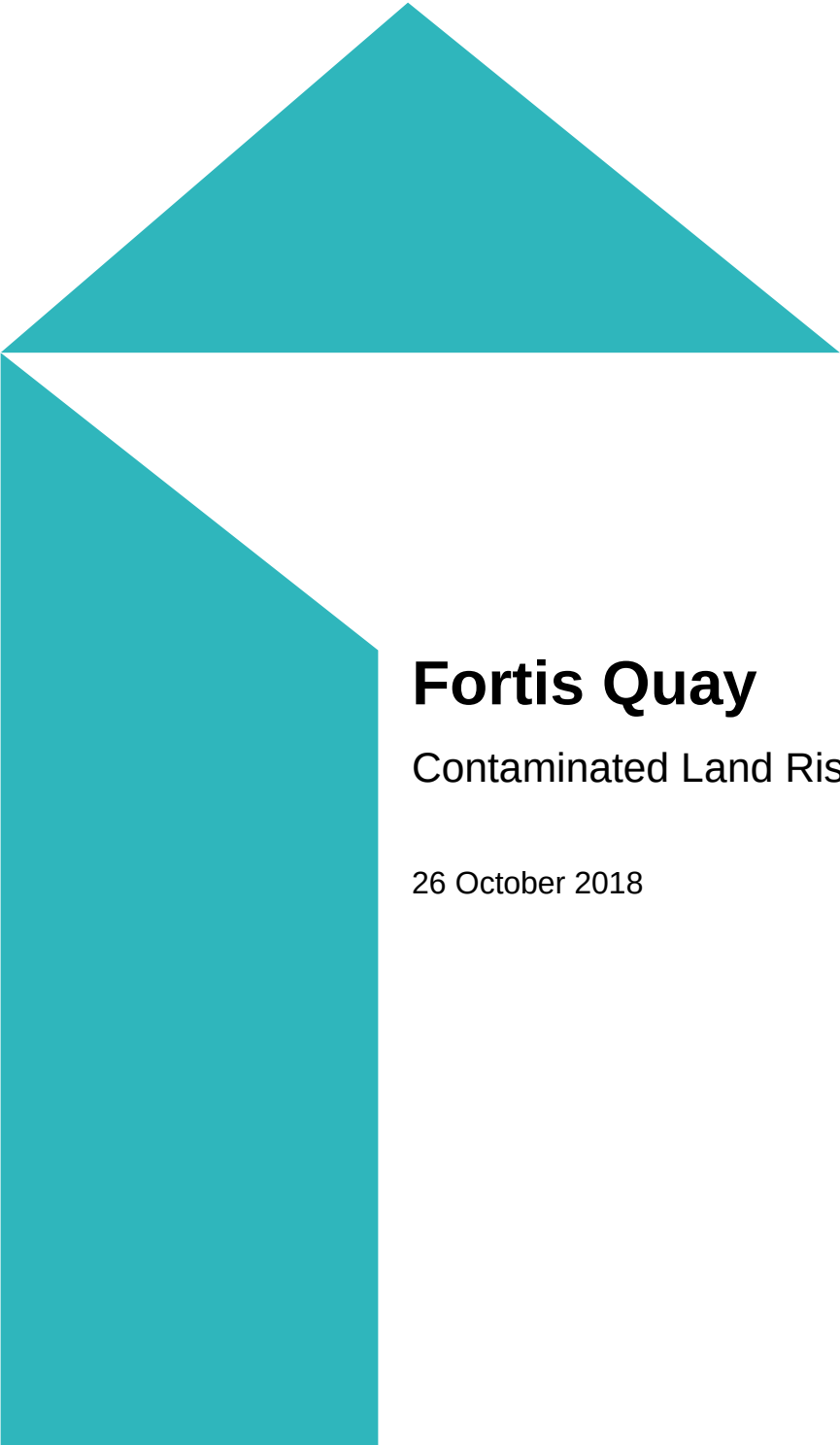




Fortis Quay

Contaminated Land Risk Assessment Report

26 October 2018

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Executive summary

Mott MacDonald were commissioned by Beaumont Morgan to undertake a Contaminated Land Risk Assessment (CLRA) based on the findings of ground investigations undertaken during March 2017 and between 22nd May and 23rd June 2017 on the site. This report supports the Mott MacDonald design for civil and structural engineering services to the Northhill Apartments and Grapnel Apartments as well as site wide drainage, pavement and highway design.

Elluc Projects has been appointed to carry out the Civil & Structural design for extensions to Custom House and Furness House. Elluc Projects in turn appointed Resource and Environmental Consultants Ltd (REC) to undertake a Phase I and Phase II Geo-Environmental Site Assessment (1). This report incorporates and updates the findings of the REC assessment.

This document is intended to support the discharge of Condition 6 attached to planning permission 17/70682/FUL.

The ground investigations confirmed the published geology at the site as comprising made ground underlain by Alluvium across the majority of the site. Glacial Till underlies the made ground at the north-eastern end of the site. The superficial deposits are in turn underlain by the Sherwood Sandstone Group bedrock, a Principal aquifer.

A review of the available groundwater monitoring data was undertaken. It appears likely that groundwater in the more permeable, granular superficial deposits is largely in continuity with groundwater in the underlying Sherwood Sandstone Group due to the presence of granular layers or lenses of material in the superficial deposits. Some areas of potentially perched water have however been identified. It is considered most likely that groundwater flow is towards the south-west.

The ground investigation identified elevated concentrations of contaminants in made ground across the site. The made ground will be removed as part of the proposed development from the footprints of the proposed Northhill and Grapnell Apartment buildings and from new areas of soft landscaping as part of the re-development. This, combined with the capping of other areas with hardstanding will ensure that the site poses a low risk to human health.

A review of groundwater quality monitoring and soil leachate testing indicates that the made ground at the site may be a source of elevated concentrations of fluoranthene, benzo(a)pyrene and manganese in groundwater. The observed concentrations of fluoranthene, and benzo(a)pyrene are considered to pose a low risk to controlled waters due to their low mobility. The observed concentrations of manganese in groundwater are considered most likely to originate from off site or natural sources.

Following the removal of made ground from the footprints of the proposed Northhill and Grapnell Apartments and from new areas of soft landscaping the risks to groundwater are assessed as low. Implementation of a robust site environmental management plan (SEMP) will be required to minimise the risks to groundwater during construction.

Ground gas monitoring results were assessed in accordance with BS8485. The site is classified as having a characteristic situation 2 and gas protection measures will be required in new buildings. The designers of the proposed refurbishment of the Danforth and Herreshoff buildings must consider the ground gas regime at the site and whether additional gas protection measures and/or post construction monitoring are required for these buildings.

A preliminary assessment of the likely waste classification of soils at the site was undertaken. A total of 41 soils samples were tested and six of these samples would be classified as hazardous waste if they required off site disposal.

It is considered that, based on the proposed construction and end use of the site, the contamination identified will not represent an unacceptable risk to identified receptors in the medium to long term, assuming the mitigation measures identified are effectively implemented. Excavation works should be monitored and the SEMP must include a strategy for the management of unexpected contamination.

The following actions are recommended to ensure that the proposed development does not pose an unacceptable risk to human health and controlled waters:

- An asbestos specialist must be appointed to provide independent, expert advice on how to manage the risk posed by asbestos containing materials at the site;
- Gas protection measures consistent with a characteristic situation 2 as defined in BS8485 will be required in the Northill and Grapnell apartments buildings;
- The designers of the proposed refurbishment of the Danforth and Herreshoff buildings must consider the ground gas regime at the site and whether additional gas protection measures and/or post construction monitoring are required for these buildings;
- Construction workers must adopt appropriate working practices including good site hygiene and use of personal protective equipment (PPE) to minimise their exposure to contaminated material;
- Construction workers must review risks posed by ground gases when working in potentially confined spaces with suitable method statements and safety procedures put in place as necessary;
- Where new areas of soft landscaping are to be created the existing made ground must be removed to minimise the risk to human health and controlled waters;
- Buried concrete must be designed in accordance with BRE Special Digest No.1;
- New water supply pipes must be designed according to UKWIR specifications in consideration of the ground conditions encountered;
- Where new areas of soft landscaping are proposed, existing made ground will be removed and replaced with clean topsoil and subsoil;
- The remainder of the site will be covered with a suitable hardstanding capping material or cover layer;
- A robust site SEMP must be prepared for the site to minimise risks to the environment during the construction work, this must include measures to minimise dust generation; and
- A foundation works risk assessment shall be undertaken to assess the risks posed by the construction of piled foundations and to determine suitable mitigation measures (if required).

1 Introduction

1.1 Background

Beaumont Morgan propose to develop an existing site at Salford Quays, Manchester to create a new residential development. The proposed works include the demolition of existing buildings, construction of new high-rise buildings and the addition of extra floors to existing buildings, as well as the associated civil engineering infrastructure, including car parks, roads and amenity spaces. A summary of the proposed works is as follows:

- Northill Apartments - An existing low rise building is to be demolished and a new 27 story tower without basement is to be built;
- Grapnel Apartments - A new 13 storey building without basement is to be constructed on an existing ground level car park; and
- Danforth and Herreshoff Apartments - Existing six and ten storey buildings (previously named Customs House and Furness House) will be vertically extended by an additional three floors and their foundations will be strengthened.

1.2 Objectives and scope of work

Mott MacDonald were commissioned by Beaumont Morgan to undertake a Contaminated Land Risk Assessment (CLRA) based on the findings of a ground investigation undertaken between 22nd May and 23rd June 2017 on the site. This report supports the Mott MacDonald design for civil and structural engineering services to the Northill Apartments and Grapnel Apartments as well as site wide drainage, pavement and highway design.

Elluc Projects were appointed to carry out the Civil & Structural design for extensions to Custom House and Furness House. Elluc Projects in turn appointed Resource and Environmental Consultants Ltd (REC) to undertake a Phase I and Phase II Geo-environmental Site Assessment (1). This report incorporates and updates the findings of the REC assessment.

This document is intended to support the discharge of Condition 6 attached to planning permission 17/70682/FUL.

Condition 6 reads:

“Prior to the commencement of construction, a Site Investigation Report shall be submitted to and approved in writing by the Local Planning Authority. The investigation shall address the nature, degree and distribution of land contamination on site and shall include an identification and assessment of the risk to receptors focusing primarily on risks to human health and the wider environment.”

1.3 Proposed development

The relevant details of the proposed development are summarised in sections 1.3.1 to 1.3.3 below. The proposed site layout is included in Appendix A.

1.3.1 Northill Apartments

The proposed Northill Apartments building will be a 27 storey residential tower on the site of an existing building at the south-western end of the site. The building will be constructed on piled foundations extending to a depth of approximately 21.5m below ground level (BGL) extending a

minimum of 3.3m into the Sherwood Sandstone Group. The piles will be constructed using continuous flight auger (CFA) piling techniques.

The ground beneath the footprint of the building will be excavated to a depth of approximately 3m BGL to facilitate the construction of the pile cap. This is expected to be sufficient to completely remove the made ground from within the footprint of the building. The pile cap will be cast in-situ and will have a thickness of 2.0m. This is reduced to 0.45m within the footprint of the lift shafts.

Approximately 0.85m of granular fill material will be emplaced above the pile cap and a 0.15m thick floor slab will be cast in-situ above this material.

1.3.2 Grapnel Apartments

The proposed Grapnel Apartments building will be a 13 storey residential building. The building will be constructed on piled foundations extending to a depth of approximately 20m below ground level (BGL) into the Sherwood Sandstone Group. The piles will be constructed using CFA piling techniques.

The ground beneath the footprint of the building will be excavated to a level of between approximately 22m above ordnance datum (AOD) and approximately 21m AOD to facilitate the construction of the piling mat. At its deepest point the excavation will be approximately 3m deep leaving a minimum of approximately 12m of superficial deposits above the Sherwood Sandstone Group. Existing ground level ranges from approximately 21.5m AOD to approximately 24.4m AOD. This excavation is expected to completely remove the made ground from within the footprint of the Grapnel Apartments building.

A finished floor level of 23.28 AOD is proposed, approximately 1.7m to 2.5m of granular fill material will be placed above the piling mat and the new ground floor slab will be cast as a suspended insitu reinforced concrete flat slab.

1.3.3 Danforth and Herreshoff Apartments

These existing six and ten storey buildings (previously named Customs House and Furness House) will be vertically extended by an additional three floors and their foundations will be strengthened.

The foundation strengthening for Danforth will require additional pile caps and ground beams to the edge of the core wall pile caps. The piles will extend one metre into the underlying Sherwood Sandstone Group at a depth of approximately 16 to 18m. The piles will be constructed using CFA and sectional flight auger (SFA) piling techniques.

Ground beneath the footprint of the foundation strengthening to be excavated to a level of between 20.48m AOD and 20.23m AOD to facilitate the construction of the foundation strengthening. Existing ground levels are approximately 22.1 to 22.2m AOD. This excavation is expected to remove the made ground from the footprint of the proposed additional piled foundations but not remove the full thickness of the superficial deposits.

The foundation strengthening for Herreshoff will require additional pile caps and ground beams to the edge of the core wall pile caps to support external walls. The piles will extend to a depth of 16m BGL. The piles will be constructed using CFA and SFA piling techniques.

Where new ground beams are required the ground will be excavated to a level of between 20.73m AOD and 20.15m AOD to facilitate the construction of the improved foundations.

Existing ground levels are approximately 22.1 to 22.2m AOD. This excavation is expected to remove the made ground from the footprint of the ground beams and associated piles.

No excavation will take place where SFA piles are to be constructed within the building footprint.

1.4 Sources of Information

The following sources of information were consulted for this report:

- WML Consulting, Phase 1 Desk Study and Preliminary Geo-Environmental Assessment for a site at Furness Quay, Salford, undertaken on behalf of Beaumont Morgan Developments, 5th May 2016 (2);
- ESG, Fortis Quay Development Site, Salford Quays, Factual Report on Ground Investigation, Report No. A7048-17, September 2017 (3);
- Mott MacDonald, Fortis Quay Interpretative Ground Investigation Report, 21 November 2017 (4);
- REC, Geo-Environmental Site Assessment, Furness Quay 2017 (1); and
- White Young Green (WYG), Ground investigation factual report, Fortis Quay, Salford, dated May 2017 (5).

1.5 Limitations

This report is subject to the following limitations which should be read in conjunction with the Disclaimer in Appendix G. This report does not consider risks from or related to asbestos, nuclear or radioactive emissions, or any incidence of toxic mould.

2 Site Background

2.1 Site Location and Description

2.1.1 Site Location

The site is located in Salford Quays, Manchester and is centred on approximate Ordnance Survey National Grid Reference 381211E, 397390N with an indicative postcode of M50 3XA. The site is approximately bound by A5063 Trafford Road to the east, Erie Basin to the north west and Ontario Basin to the south west.

The boundary of the site considered in this assessment is shown in red on the site layout plan included in Appendix A. This excludes a triangular area on the southern boundary of the site which is outside the red line boundary. Contaminated land risks associated with any development in this area will be addressed in a separate document.

2.1.2 Site Description

The site is irregular in shape and covers an area of approximately 1.7 hectares. The majority of the site is approximately level at 22m AOD. The ground levels increase to approximately 25m AOD towards the eastern side of the site. Further details are provided on the CSL Topographical Survey drawing 101254-01C (see Appendix A). The site is currently occupied by buildings, car parks and landscaping.

Metrolink light rail tracks cross the western end of the site on an elevated viaduct. This viaduct is not part of the Fortis Quay development project. The underside of the viaduct provides approximately 6m of clearance from existing ground level. An electricity substation is located close to the northern site boundary.

2.2 Published Geology

A review of the British Geological Survey (BGS) Sheet 85 'Manchester' (1:50,000 scale Solid and Drift editions) and the site-specific Ground Sure GeoInsight report supplemented by the BGS Digital Geological Map of Great Britain (DiGMapGB-50; available as a Web Map Service) was made as part of the desk study and is summarised below:

- The BGS plans indicate that the site is underlain by made ground of unknown thickness and provenance;
- Across the majority of the site the made ground is in turn underlain by Alluvium which are indicated to comprise sand with clay and gravel but may also comprise silt together with very soft / degradable organic deposits;
- Glacial Till which mainly comprises clay but can be interbedded with horizons of sand and gravel is mapped outcropping beneath the north-eastern corner of the site, this may underlie the Alluvium in parts of the site;
- Glaciofluvial deposits are shown on BGS mapping to the south-west of the site on the other side of the Manchester Ship Canal, these may underlie the Alluvium in parts of the site;
- The eastern extent of the Alluvium broadly concurs with the change in topography indicated on the topographical surveys;
- The drift deposits are underlain by the Triassic Chester Pebble Beds Formation of the Sherwood Sandstone Group. These generally comprise sandstone with pebbles; and

- The bedrock is shown to dip to the south at unknown but assumed shallow angles, there are no faults mapped within 500m of the site.

2.3 Hydrology and hydrogeology

The nearest surface water bodies are the Ontario and Erie basins and the Manchester Ship Canal. These are located approximately 75m south-west, 100m north-west and 450m west of the site respectively.

The desk study (2) indicates that the superficial deposits of Alluvium underlying the site are designated as a Secondary A aquifer. The Glacial Till is designated as a Secondary (Undifferentiated) aquifer. The bedrock of Triassic Chester Pebble Beds Formation of the Sherwood Sandstone Group is designated as a Principal aquifer. The Glaciofluvial Deposits are designated as a Secondary A aquifer.

The site is not within 500m of a groundwater source protection zone.

There are no groundwater abstraction licences within 500m of the site, the closest is located 726m south at Ordsall Lane. The BGS water well records for the area (6) have been reviewed and none have been identified within 500m of the site.

Hydrogeological mapping of the region undertaken in 1989 indicates that the piezometric surface in the underlying Sherwood Sandstone Group Principal aquifer was at an elevation of approximately 19m AOD, approximately 3 to 6m BGL and that groundwater flow was southwards towards the River Mersey (7).

2.4 Site usage

WML Consulting (2) report that “the site was developed from agricultural land as Manchester Race Course sometime before 1891. The east of the site was occupied by terraced housing while a Saw Mills occupied the south-western area. By 1906, the site had been re-developed as a railway junction and associated sidings serving Salford Dock. It remained in this use until sometime between 1956 and 1972 when it was developed into its current configuration.”

WML Consulting also identified an electricity substation at the northern end of the site.

A range of industrial land uses are reported to have been present in the surrounding area (2).

Following a review of current land use a petrol filling station has been identified on the eastern boundary of the site.

WML Consulting did not identify any landfill sites “within influencing distance of the site” (2).

3 Ground investigation

A ground investigation was undertaken by ESG between 22nd May and 23rd June 2017. The findings of the ground investigation are presented within the Fortis Quay Development Site, Salford Quays, Factual Report on Ground Investigation, Report No. A7048-17, September 2017 (3).

An additional ground investigation was undertaken by White Young Green in March 2017 (5) which specifically targeted the Danforth and Herreshoff Apartments. A review of the results of this investigation is also included in this assessment.

3.1 Ground investigation objectives

The ground investigations were undertaken with the following objectives:

- To confirm the depth and composition of the strata present beneath the site;
- To establish the groundwater regime; and
- To inform the assessment of risks to human and environmental receptors from land contamination at the site.

3.2 Ground Investigation Scope

3.2.1 General

The scope of works briefly comprised:

- Cable Percussive (CP) boreholes;
- Rotary Core (RC) follow-on boreholes from some of the CP boreholes into bedrock;
- Dynamic sampling boreholes;
- Installation of gas and groundwater monitoring standpipes and the associated return monitoring visits;
- Trial pits across the development site;
- Geotechnical testing of soil, and rock samples;
- Environmental testing of soil and groundwater samples; and
- Factual reporting on the above works.

Full details are included in the contractors' factual reports (3) and (5).

3.2.2 Rational of ground investigations

3.2.2.1 ESG ground investigation

This included 12 cable percussive boreholes, 10 of which had rotary core follow on, were drilled, primarily to provide geotechnical information close to the proposed structures. Dynamic sampling boreholes and trial pits were used to provide additional coverage of the site at a shallow depth and were arranged in a non-targeted pattern to characterise the made ground.

Soil and leachate sampling was targeted at the most visibly contaminated horizons.

Standpipes were installed at a range of depths in order to record groundwater and ground gas conditions across the site in different strata. Several dual installation standpipes were installed

to investigate vertical hydraulic gradients at the site and assess the degree of connectivity between different strata.

3.2.2.2 WYG ground investigation

This ground investigation focussed on the Danforth and Hereshoff building. “WYG were commissioned by Beaumont Morgan to carry out a ground investigation at Fortis Quay, Salford. Major structural changes to the current buildings have been proposed and a ground investigation was required to assess ground and groundwater conditions and aid in the design” (1). The ground investigation included four cable percussive boreholes with three dual standpipe installations and one single standpipe installation.

3.2.3 Contamination Laboratory Testing

The following contamination testing has been undertaken:

- Soil contamination testing including:
 - Heavy metals and metalloids;
 - Benzene, toluene, ethylbenzene, and xylene (BTEX);
 - Total petroleum hydrocarbons (TPHCWG bands);
 - USEPA 16 polycyclic aromatic hydrocarbons (PAH);
 - Speciated phenols;
 - Cyanide;
 - Total sulphur;
 - Water soluble sulphate;
 - Fraction of organic carbon;
 - Volatile organic compounds (VOC);
 - Asbestos screen; and
 - pH.
- Soil leachate and groundwater quality testing including:
 - Heavy metals and metalloids;
 - Benzene, toluene, ethylbenzene, and xylene (BTEX);
 - Total petroleum hydrocarbons (TPHCWG bands);
 - USEPA 16 polycyclic aromatic hydrocarbons (PAH);
 - Total phenols;
 - Cyanide;
 - Sulphate;
 - Chloride;
 - Fluoride;
 - Calcium;
 - Magnesium;
 - Ammoniacal nitrogen;
 - Water soluble sulphate; and
 - pH.

A total of 45 soil samples were collected for laboratory analysis during the two ground investigations. Samples were collected from the made ground and Alluvium at regular intervals and with signs of visual/olfactory evidence of contamination observed during fieldwork.

A total of six groundwater samples over one round were taken during the ESG ground investigation.

3.3 Post fieldwork monitoring

Groundwater and ground gas monitoring standpipes were installed and monitored during both ground investigations (3) and (5). A summary of the monitoring undertaken is included in Table 1. Groundwater level and ground gas monitoring was undertaken in all standpipes during the course of monitoring. Groundwater samples for analysis were taken on 4th July 2017.

Table 1: Post fieldwork monitoring

Date	Standpipes monitored
22/03/2017	BH101-S, BH101-D, BH102, BH103-S, BH103-D, BH104-S, BH104-D
30/03/2017	
12/06/2017	RC01S, RC01D, RC02, RC03
16/06/2017	CP02, RC01S, RC01D, RC02, RC03, RC06, RC08, RC09, RC10
20/06/2017	CP02, RC01S, RC01D, RC02, RC03, RC06, RC07B, RC08, RC09, RC10, WS01, WS02, WS03, WS04, WS05
21/06/2017	CP01, CP02, RC01S, RC01D, RC02, RC03, RC06, RC07B, RC08, RC09, RC10, WS01, WS02, WS03, WS04, WS05
22/06/2017	RC01S, RC03, WS02, WS03
23/06/2017	CP01, CP02, RC01S, RC01D, RC02, RC03, RC06, RC07B, RC08, RC09, RC10, WS01, WS02, WS03, WS04, WS05
29/06/2017	BH105, RC01S, RC01D, RC02, RC03, RC06, RC07B, RC08, WS01, WS02, WS03, WS04, WS05
30/06/2017	CP01, CP02, RC09, RC10
10/07/2017	BH105, CP01, CP02, RC07B, RC08, RC10, WS04, WS05
14/07/2017	BH105, CP01, CP02, RC06, RC07B, RC08, RC09, RC10, WS04, WS05
21/07/2017	BH105, CP01, CP02, RC06, RC08, RC09, RC10, WS04, WS05
01/08/2017	CP01, CP02, RC08, RC10, WS05
04/08/2017	BH105, CP01, CP02, RC07B, RC08, RC10, WS04, WS05

Source: (3) and (5)

Details of the strata monitored by each installation are included in Table 2. No standpipes penetrate the Sherwood Sandstone Group. The standpipe in BH105 has its response zone in sands immediately overlying the Sherwood Sandstone Group and consequently is likely to provide an indication of water levels in the Principal aquifer.

Table 2: Standpipe monitoring zones

Standpipe	Top of monitoring zone (m AOD)	Base of monitoring zone (m AOD)	Strata monitored
BH101-S	21.95	20.55	Alluvium

Standpipe	Top of monitoring zone (m AOD)	Base of monitoring zone (m AOD)	Strata monitored
BH101-D	12.25	10.25	Glaciofluvial deposits
BH102	10.32	9.32	Alluvium
BH103-S	21.58	20.58	Made ground
BH103-D	13.58	11.58	Glaciofluvial deposits
BH104-S	21.76	21.16	Made ground
BH104-D	12.16	9.16	Glaciofluvial deposits
BH05	10.22	7.72	Alluvium
CP01	20.15	15.15	Alluvium
CP02 (D)	19.28	14.78	Alluvium
RC01 (D)	15.04	13.04	Alluvium
RC01 (S)	21.04	20.04	Alluvium
RC02	13.05	9.05	Alluvium
RC03 (D)	11.89	8.39	Alluvium
RC03 (S)	18.39	16.89	Alluvium
RC06	15.96	13.96	Alluvium
RC07B	17	13	Alluvium
RC08	22.38	19.38	Alluvium
RC09	19.55	16.55	Alluvium
RC10	21.18	10.18	Alluvium
WS01	20.91	18.91	Made ground
WS02	21.12	18.12	Alluvium
WS03	21.31	18.31	Alluvium
WS04	21.46	18.46	Alluvium
WS05	22.56	20.56	Alluvium

Source: (3) and (5)

4 Ground investigation results

4.1 General

The ground investigation has generally confirmed the in-situ geology shown on the published geological maps with made ground underlain by Alluvium, Glacial Till and the Sherwood Sandstone Group.

There is generally around a 1m thick layer of made ground across the site with local pockets in excess of two meters thick in the north-east of the site. The maximum observed thickness was 3.2m in CP01.

The made ground is predominantly granular and may have been placed to enable hardstand/pavement construction to be placed on top of the underlying soft natural deposits, though it cannot be confirmed as an engineered fill.

The superficial deposits encountered beneath the made ground are consistent with the Alluvium and glacial deposits described on the geological maps. The materials are predominantly interbedded sand and clay lenses with some areas of clayey gravel deposits. In general the interbedded sands and clays are present in the western half of the site with gravelly clays being more dominant towards the east. Some interbedded sands and clays are however present within parts of the eastern half of the site.

Sandstone rock head (bedrock) is generally around a level of 7mAOD, giving an approximate depth to rock head of approximately 15 to 17m.

4.2 Visual and olfactory evidence of contamination

Table 3 summarises visual and olfactory evidence of contamination recorded by ESG and WYG during the ground investigations.

Table 3: Visual and olfactory evidence of contamination

Sample location and depth	Strata type	Possible visual / olfactory evidence of contamination
CP02 - 0.50mbgl - 0.90m BGL	Made ground	Clinker in made ground
RC01 - 0.15mbgl - 0.30m BGL	Made ground	Ash fill in made ground
RC01 - 0.30mbgl - 0.70m BGL	Made ground	Clinker in made ground
RC02 - 0.10mbgl - 0.40m BGL	Made ground	Clinker and tarmacadam in made ground
RC02 - 0.40mbgl - 0.80m BGL	Made ground	Clinker in made ground
RC03 - 0.30mbgl - 1.20m BGL	Made ground	Clinker and concrete in made ground
RC06 - 0.50mbgl - 2.00m BGL	Made ground	Clinker and glass in made ground
WS02 - 0.30mbgl - 1.00m BGL	Made ground	Clinker and glass in made ground
TP02 - 0.20mbgl - 0.60m BGL	Made ground	Clinker and tarmacadam in made ground
TP02 - 0.60mgl - 0.80m BGL	Made ground	Clinker and concrete in made ground
TP03 - 0.50m - 0.80m BGL	Made ground	Clinker in made ground
TP06 - 0.15mbgl - 0.60m BGL	Made ground	Ashy made ground with fragments of plastic, wood, rubber, and metal. Gravel of brick, concrete,

Sample location and depth	Strata type	Possible visual / olfactory evidence of contamination
		sandstone, coal, clinker and mudstone.
TP07 - 0.50mbgl - 0.80m BGL	Made ground	Frequent metal, rubber, plastic and wood fragments.
BH101 – 0.15 – 0.2m BGL	Made ground	Clinker and concrete in made ground
BH103	Made ground	Clinker in made ground

4.3 Groundwater

Groundwater monitoring was carried out over the months of June to August 2017. The stabilised levels indicated water at very shallow depth in the range between 20.7 to 22.2 m AOD, with a mean around 21m AOD. Ground levels at the site range from approximately 22 to 25m AOD, with groundwater 1 – 4m below the surface, as monitored in the shallow superficial deposits. A summary of the observed groundwater levels is included in Table 4. Data from 22nd and 23rd June are included to provide a snapshot of groundwater level variations across the site. A large proportion of the standpipes were monitored over these two days.

Table 4: Summary of groundwater level monitoring

Standpipe	Top of monitoring zone (m AOD)	Base of monitoring zone (m AOD)	Strata monitored	GWL (m BGL)	Observed GWL (m AOD) (22 nd and 23 rd June 2018)
BH101-S	21.95	20.55	Alluvium	0.62 to 0.65	N/A
BH101-D	12.25	10.25	Glaciofluvial deposits	1.36 to 1.41	N/A
BH102	10.32	9.32	Alluvium	1.42 to 1.45	N/A
BH103-S	21.58	20.58	Made ground	0.94 to 1.16	N/A
BH103-D	13.58	11.58	Glaciofluvial deposits	0.92 to 1.20	N/A
BH104-S	21.76	21.16	Made ground	0.50 to 0.52	N/A
BH104-D	12.16	9.16	Glaciofluvial deposits	1.30 to 1.36	N/A
BH05	10.22	7.72	Alluvium	1.39 to 1.61	20.83*
CP01	20.15	15.15	Alluvium	3.15 to 3.20	20.95
CP02 (D)	19.28	14.78	Alluvium	2.92 to 3.30	21.92
RC01 (D)	15.04	13.04	Alluvium	0.57 to 1.70	21.47
RC01 (S)	21.04	20.04	Alluvium	0.53 to 0.83	21.495
RC02	13.05	9.05	Alluvium	1.17 to 1.33	20.87
RC03 (D)	11.89	8.39	Alluvium	N/A	N/A
RC03 (S)	18.39	16.89	Alluvium	0.50 to 0.86	21.53
RC06	15.96	13.96	Alluvium	1.03 to 1.46	20.89
RC07B	17	13	Alluvium	0.99 to 1.22	20.79
RC08	22.38	19.38	Alluvium	3.17 to >5.00	Dry
RC09	19.55	16.55	Alluvium	0.66 to 0.70	20.88
RC10	21.18	10.18	Alluvium	2.55 to 5.00	20.6
WS01	20.91	18.91	Made ground	0.55 to 0.55	21.36
WS02	21.12	18.12	Alluvium	0.61 to 0.66	21.48

Standpipe	Top of monitoring zone (m AOD)	Base of monitoring zone (m AOD)	Strata monitored	GWL (m BGL)	Observed GWL (m AOD) (22 nd and 23 rd June 2018)
WS03	21.31	18.31	Alluvium	0.74 to 0.75	21.57
WS04	21.46	18.46	Alluvium	0.88 to 1.00	20.98
WS05	22.56	20.56	Alluvium	1.98 to 2.06	21.02

Source: (3)

(D) indicates deep dual installation standpipe

(S) indicates shallow dual installation standpipe

*Data from 29/06/2018

It has not been possible to prepare groundwater contours for the whole site due to the potential presence of perched water in some standpipes, particularly at the western end of the site where interbedded low and high permeability layers are present. A southwards trend in groundwater flow has been identified based on the water levels observed in the central part of the site which appear to form a consistent body of water. This is consistent with the regional groundwater flow regime described in section 2.3.

Groundwater levels are comparable to those observed in BH105 across the majority of the eastern two thirds of the site and the regional hydrogeological map (7) suggesting a degree of connectivity with the underlying Sherwood Sandstone Group.

5 Contamination Conceptual Model

This section describes the potential linkages between contamination sources, pathways and receptors which describe the Contamination Conceptual Model. This section should be read in conjunction with Section 4 describing the ground conditions encountered during the latest ground investigation and the desk study. The conceptual model has been revised following review of the data from both the WYG (5) and ESG (3) ground investigations undertaken in 2017.

5.1 Potential contamination sources

The following potential sources of contamination have been identified through the desk study (2) and ground investigations:

S1: Widespread made ground due to past industrial land use and historical ground raising;

S2: Historical electrical substations;

S3: Off-site contamination due to historical industrial land use; and

S4: Alluvium as a source of ground gas.

It is assumed that a robust environmental management plan will be adopted during the construction works and that no contamination will occur as a result of leaks and spills during construction.

5.2 Potential contamination pathways

The following potential contamination pathways have been identified through the desk study (2) and ground investigations:

P1: Human exposure pathways;

P1a: Direct soil and dust ingestion;

P1b: Dermal uptake (indoor and outdoor);

P1c: Inhalation of dust and vapours indoor and outdoor;

P2: Production and vertical migration of leachates in unsaturated zone;

P3: Vertical and horizontal migration of contaminants in saturated zone;

P4: Ground gas migration;

P5: Direct contact with buried structures and infrastructure; and

P6: Man made pathways.

5.3 Potential contamination receptors

The following potential receptors have been identified through the desk study (2) and ground investigations:

R1: End users;

R2: Adjacent site users

R3: Construction and maintenance workers;

R4: Fabric of building and infrastructure;

R5: Groundwater in the underlying made ground, Alluvium (Secondary A aquifer), Glaciofluvial Depoists (Secondary A aquifer), Glacial Till and Chester Formation of the Sherwood Sandstone Group (Principal aquifer); and

R6: Manchester Ship Canal including the Ontario and Erie Basins.

6 Generic quantitative risk assessment

6.1 Legislative context

The primary regulatory regime, under which contaminated land in the UK (excluding Northern Ireland) is managed, is Part IIA of the Environmental Protection Act (EPA) 1990 (8), although numerous other subsidiary Regulations are also relevant. This report adopts a strategy for the assessment of potential land contamination based on current guidance documents related to Part IIA of the EPA. A summary of applicable English legislation and regulatory guidance used for the assessment of land contamination is presented in Appendix B.

6.2 Planning policy

The majority of inspection and remediation of land contamination is managed through the planning process as sites undergo redevelopment. Typically, this is managed via a set of planning conditions relating to land contamination under the Town and Country Planning Act, although other avenues are possible, such as a Parliamentary Bill, or Development Consent Order (DCO) submitted to the Planning Inspectorate.

For new developments that are regulated under the Town and Country Planning Act 1990 (as amended), this regime provides a mechanism for the planning authority to enforce the proper investigation of a development site in order to ensure that once development has occurred the site is suitable for its intended use. In England, the National Planning Policy Framework (NPPF) provides guidance on the implementation of contaminated land and pollution management requirements to address contamination risks associated with future site uses through the planning system. Paragraphs 170, 180 and 178 of the NPPF state the following:

“170: Planning policies and decisions should contribute to and enhance the natural and local environment by:

e) preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and

f) remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.

180: Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects (including cumulative effects) of pollution on health, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development.

And, 178: Planning Policies and decisions should ensure that:

- A site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation);

- After remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and
- Adequate site investigation information, prepared by a competent person, is available to inform these assessments.

The requirements of the NPPF are further detailed by the Planning Practice Guidance (PPG) documents. Reference is therefore made to the 'Land Affected by Contamination' PPG which details the risk based approach, identification of pollutant linkages, requirements for site investigation and the objectives of planning conditions.

6.3 Standards employed

For the purposes of this study, contamination and environmental considerations are studied by developing a conceptual model of the site that describes the environmental features of the site together with the expected interaction of potential contamination sources and the wider environment. Where data allows, the risk assessment considers site contamination data against generic risk based thresholds for the contamination linkages identified in the conceptual model. The risks to each receptor are summarised qualitatively in Table 14. Qualitative risk descriptions are summarised in Appendix C.

6.3.1 Human health criteria

The proposed end use of the development is as primarily residential high rise tower blocks. The screening values deemed most appropriate for the assessment are LQM/CIEH Suitable for Use Levels (S4ULs) for Human Health Risk Assessment related to "residential without produce" land use. The values have been selected for a soil organic matter (SOM) concentration of 1%, to consider the most conservative scenario. This is based upon the range of soil organic matter content seen at the site (total organic carbon ranges from 0.44% to 22.2%). Where S4ULs were not available, DEFRA C4SLs have been used, again for "residential without produce" land use and in the absence of C4SLs, CL:AIRE guidance values have been implemented. A full summary of the screening values and the contamination data is present in D.

6.3.2 Environmental criteria

Laboratory soil leachate data has been compared with Environmental Quality Standards (EQS) as groundwater beneath the site is expected to be in connectivity with the Manchester Ship Canal and the associated canal basins and drinking water standards (DWS) to protect the Secondary A and Principal aquifers. Where applicable the bioavailability of contaminants has been considered to derive site specific standards. The parameters used to derive site specific screening criteria based on bioavailability are summarised in Table 5.

Table 5: Water quality parameters used to assess bioavailability

Parameter	Value used	Source
DOC	6.41	Hydrometric default 25 th percentile for the Mersey catchment (9)
Ca	46.8	Hydrometric default 50 th percentile for the Mersey catchment (9)
pH	7.0	25 th percentile pH value representative of worst case conditions in the Mersey (9)

Source: (9)

6.4 Risk to human health

6.4.1 Risks from non-asbestos soils contaminants to Final End Users

Residents and members of the public comprise the final end users for the Scheme.

A review of all available ground information was undertaken. Samples of made ground where the concentrations of contaminants exceeded the human health screening criteria are summarised within Table 6.

Table 6: Soil exceedance results

Determinant	Exploratory Hole	Depth (m BGL)	Residential without produce 1% SOM	Unit	Exceedance result
Arsenic	RC04	0.5	40	mg/kg	75.3
	WS02	0.3	40	mg/kg	40.3
	BH101	1	40	mg/kg	50.4
	BH102	0.5	40	mg/kg	60.5
Beryllium	RC03	1	1.7	mg/kg	3.32
	TP02	0.2	1.7	mg/kg	1.88
	TP03	0.5	1.7	mg/kg	2.02
	WS01	0.5	1.7	mg/kg	2.66
	WS02	0.3	1.7	mg/kg	2.07
	WS03	1	1.7	mg/kg	1.98
Benzo(b)fluoranthene	RC03	0.5	3.9	mg/kg	4.01
	RC06	0.5	3.9	mg/kg	4.92
	RC06	1	3.9	mg/kg	5.69
	TP03	0.5	3.9	mg/kg	12.1
	TP04	0.5	3.9	mg/kg	5.49
	TP06	0.2	3.9	mg/kg	30.5
	WS02	0.3	3.9	mg/kg	6.05
	WS05	0.2	3.9	mg/kg	5.32
	BH102	0.5	3.9	mg/kg	6.58
Dibenz-a-h-anthracene	RC03	0.3	0.31	mg/kg	0.33
	RC03	0.5	0.31	mg/kg	0.48
	RC06	0.5	0.31	mg/kg	0.56
	RC06	1	0.31	mg/kg	0.76
	TP03	0.5	0.31	mg/kg	1.24
	TP04	0.5	0.31	mg/kg	0.72
	TP06	0.2	0.31	mg/kg	4.52
	TP10	0.5	0.31	mg/kg	0.33
	WS02	0.3	0.31	mg/kg	0.64
	WS05	0.2	0.31	mg/kg	0.54
Benzo(a)anthracene	TP03	0.5	11	mg/kg	11.9
	TP06	0.2	11	mg/kg	32.6
Benzo(a)pyrene	RC06	0.5	3.2	mg/kg	4.3
	RC06	1	3.2	mg/kg	5.07
	TP03	0.5	3.2	mg/kg	9.43

Determinant	Exploratory Hole	Depth (m BGL)	Residential without produce 1% SOM	Unit	Exceedance result
	TP04	0.5	3.2	mg/kg	4.39
	TP06	0.2	3.2	mg/kg	25
	WS02	0.3	3.2	mg/kg	4.73
	WS05	0.2	3.2	mg/kg	4.4
	BH102	0.5	3.2	mg/kg	5.37
Naphthalene	RC05	0.3	2.3	mg/kg	4.67
	RC09	0.3	2.3	mg/kg	20.2
Aromatics >C21-C35	RC05	0.3	1900	mg/kg	3610
	BH104	0.5	1900	mg/kg	6665*
Lead (6% SOM)	RC01	0.5	310	mg/kg	423.1
	TP04	0.5	310	mg/kg	1110
	BH102	0.5	310	mg/kg	663

*Combined aliphatics and aromatics concentration

Notable concentrations of petroleum hydrocarbons were detected in samples taken from RC05 (0.3m BGL), RC09 (0.3m BGL), and TP11 (0.3m BGL). These are predominantly heavy end hydrocarbons within samples of blacktop material and are unlikely to pose a risk to human health or controlled waters.

Notable concentrations of hydrocarbons were also identified in TP06 (0.2m BGL). This appears likely to relate to ashy material within the made ground at this location.

Hydrocarbon contamination recorded in BH102 is not clearly linked to any material identified in the borehole logs. This may be due to cross contamination of the sample from the overlying tarmacadam.

Total petroleum hydrocarbon thresholds have been used to calculate individual hazard quotient (HQ) for each fraction as described in Appendix C. The HQs are summed to provide a Hazard Index (HI) representing additive risks from all petroleum hydrocarbons.

Table 7: Total petroleum hydrocarbon Hazard Index (HI)

Exploratory hole and depth (m)	Hazard indices calculated
BH105 – 0.6	0.29
CP01 – 0.5	0.29
CP01 – 1.5	0.29
CP02 – 0.5	0.32
RC01 – 0.5	0.30
RC01 – 1.8	0.30
RC01 – 2.85	0
RC02 – 0.1	0.33
RC02 – 1	0.29
RC03 – 0.3	0.31
RC03 – 0.5	0
RC03 – 1	0.31
RC04 – 0.5	0.39
RC04 – 1	0

Exploratory hole and depth (m)	Hazard indices calculated
RC05 – 0.3	1.30
RC06 – 0.5	0.32
RC06 – 1	0
RC06 – 3.5	0.35
RC07 – 1.5	0.31
RC07 – A – 0.5	0.30
RC08 – 0.5	0.30
RC08 – 1	0
RC08 – 1.5	0.37
RC09 – 0.3	0.67
RC09 – 1.5	0.37
RC10 – 0.3	0.30
RC10 – 0.5	0
TP01 – 0.3	0.30
TP02 – 0.2	0.30
TP03 – 0.5	0.33
TP04 – 0.5	0.32
TP06 – 0.2	0.42
TP08A – 0.5	0.31
TP09 – 0.2	0.30
TP10 – 0.5	0.31
TP11 – 0.3	0.33
WS01 – 0.5	0.40
WS02 – 0.3	0.34
WS03 – 1.0	0.33
WS05 – 0.2	0.39
WS06 – 0.5	0.36
BH101 – 1.0	1.17
BH102 – 0.5	1.17
BH103 – 2.0	0.80
BH104 – 0.5	4.23

Samples with a HI greater than unity are highlighted in bold.

The Hazard Index for the majority of the soil tested does not exceed unity suggesting that risks to final end users due to cumulative effects from multiple hydrocarbon species are likely to be Low in most cases. Samples from RC05 and BH104 exceeded unity due to the individual exceedances of the screening criteria shown in Table 6. Samples from BH101 and BH102 exceeded unity due to the cumulative effect of several hydrocarbon fractions that did not individually exceed the screening criteria.

6.4.2 Observations of asbestos

During the ground investigation asbestos was encountered within seven soil samples, detailed within Table 8. The detection limit of the test was 0.001%.

Table 8: Asbestos encountered within the ground investigation

Exploratory hole and depth (m)	Asbestos description
RC1 - 0.50m	Crocidolite – loose insulation
WS3 - 1.00m	Chrysotile – loose insulation
TP08A – 0.50m	Chrysotile (free fibres)
TP04 – 0.50m	Amosite & Crocidolite & Chrysotile (free fibres)
TP10 – 0.50m	Amosite (free fibres)
BH101 – 1.0m	Chrysotile (fibre bundles)
BH102 – 0.5m	Amosite (fibre bundles)

It is recommended that Beaumont Morgan appoints a specialist asbestos contractor to provide independent, expert advice on how to manage the risk posed by asbestos containing materials.

6.4.3 Risks from ground gases to future site users

Risks from ground gases to future building occupants have been assessed in accordance with BS8485:2015 (15). The British Standard calculates a hazardous gas flow rate (Q_{hg}) as follows:

$$Q_{hg} = q \times (Chg / 100)$$

Where:

q = the measured flow rate (in litres per hour) of combined gases

Chg = the measured hazardous gas concentration (in percentage volume / volume)

The range of atmospheric conditions encountered during the monitoring rounds is summarised in Table 9. Results from standpipes where groundwater levels were measured above the top of the standpipe response zone have been discounted.

Table 9: Summary of atmospheric conditions during gas monitoring

Date	Standpipes monitored	Atmospheric pressure
22/03/2017	BH101-S,	Low Rising
30/03/2017	BH101-S, BH103-S, BH104-S	Low falling gradually
06/04/2017	BH101-S, BH103-S, BH104-S	High falling
12/04/2017	BH101-S, BH103-S, BH104-S	Low falling
18/04/2017	BH101-S, BH103-S, BH104-S	Rising
25/04/2017	BH101-S, BH103-S, BH104-S	Rising
23/06/2017	RC08, RC10, WS04, WS05	Low falling
10/07/2017	RC08, RC10, WS04, WS05	Low falling
14/07/2017	RC08, RC10, WS04, WS05	Rising
21/07/2017	RC08, RC10, WS04, WS05	Low stable following fall
01/08/2017	RC08, RC10, WS04, WS05	Low rising
04/08/2017	RC08, RC10, WS04, WS05	Rising

Source: (1) (3)

Monitoring has been undertaken under a range of atmospheric conditions, but only limited data are available for some standpipes. A review of the conceptual model and the contaminated land risk assessment indicates that the most likely potential sources are the made ground beneath the site and any natural organic rich deposits in the underlying Alluvium. Both are widespread beneath the site, consequently zoning of gas risk is not appropriate and a worst case gas screening value (GSV) has been derived based on data from both ground investigations using

the maximum observed flow rates and gas concentrations in each standpipe in accordance with BS8485:2015 (16). A summary of the assessment is included in Table 10.

Table 10: Summary of ground gas risk assessment

BH	Max gas conc (% vol)	Max steady flow rate (l/hr)	GSV (l/hr)	Characteristic situation
BH01S	1.2	7.2	0.0864	CS2
BH03S	6.1	3	0.183	CS2
BH04S	0.6	0.4	0.0024	CS1
RC08	3	0.1	0.003	CS1
RC10	0.1	0.1	0.0001	CS1
WS04	4.3	0.9	0.0387	CS1
WS05	5.8	0.2	0.0116	CS2

Source: (3) (5)

BH101-S, BH103-S and BH104-S were screened in the made ground deposits. RC08, RC10, WS04 and WS05 were screened in the Alluvium.

The observed gas flows and concentrations are consistent with a CS2 site. Carbon dioxide concentrations also exceeded 5% by volume in WS05 on several occasions indicating that this result is not considered to be an isolated spike.

The most rapid gas flow rates observed at the site were the result of gas inflows into the boreholes, rather than outflows. Readings thought to be influenced by groundwater level changes in standpipes have been discounted. The remainder are assumed to be reversible and have been treated as outflows.

Due to the CS2 classification it will be necessary to ensure that the proposed new structures have sufficient gas protection measures in place.

UK Radon mapping (17) indicates that the site is not in a radon affected area as less than 1% of Properties are above the Action Level.

Risks to human health from vapours arising from contaminants dissolved in groundwater have been assessed by screening against the generic assessment criteria proposed in (18). No exceedances of the screening criteria were identified.

6.4.4 Potential risks to construction and maintenance workers

Due to the nature of their work, construction and maintenance workers are likely to come into contact with site soils and any ground gases, which increases their risk of contamination exposure. It is noted, however, that the exposure duration for site workers will be short term and will be mitigated by:

- Adoption of appropriate working practices and use of personal protective equipment (PPE); and
- Reviewing risks posed by ground gases when working in potentially confined spaces with suitable method statements and safety procedures put in place as necessary.

6.5 Risks from soils to controlled waters

Groundwater monitoring was carried out over the months of June to August 2017. The stabilised levels indicated water at very shallow depth in the ranged between 20.7 to 22.2 mAOD, with a mean around 21mAOD.

Leachate concentrations have been assessed against Environmental Quality Standards (EQS) and/or Drinking Water Standards (DWS). Leachate from these soil samples were found to have elevated concentrations of antimony, arsenic, cadmium, chromium, copper, iron, lead, nickel, zinc, chromium (III), chromium (VI), ammoniacal nitrogen, manganese and sulphate.

Leachate from soil samples was also tested for a range of organic contaminants and several were found to be present at concentrations exceeding the relevant screening criteria. These results may be underestimates of the actual pore water concentrations of these contaminants due to volatilisation or low solubility of some organic contaminants.

Table 11: Leachate exceedance results

Determinant	Exploratory Hole	Depth (m BGL)	DWS	EQS	Unit	Exceedance result
Antimony	CP02	0.5	0.005	-	mg/l	0.006
	RC02	0.1	0.005	-	mg/l	0.007
	RC03	1	0.005	-	mg/l	0.005
	RC05	0.3	0.005	-	mg/l	0.005
	RC06	0.5	0.005	-	mg/l	0.007
	RC07-A	0.5	0.005	-	mg/l	0.006
	TP03	0.5	0.005	-	mg/l	0.005
	TP08A	0.5	0.005	-	mg/l	0.005
	WS02	0.3	0.005	-	mg/l	0.008
	WS03	1	0.005	-	mg/l	0.015
Arsenic	RC02	1	0.01	0.05	mg/l	0.012
	RC03	0.3	0.01	0.05	mg/l	0.012
	RC04	0.5	0.01	0.05	mg/l	0.018
	TP03	0.5	0.01	0.05	mg/l	0.015
	WS03	1	0.01	0.05	mg/l	0.045
Cadmium	BH105	0.6	0.005	0.00025	mg/l	0.0006
	CP01	0.5	0.005	0.00025	mg/l	0.0051
	CP02	0.5	0.005	0.00025	mg/l	0.0003
	RC01	0.5	0.005	0.00025	mg/l	0.0003
	RC01	1.8	0.005	0.00025	mg/l	0.0003
	RC02	0.1	0.005	0.00025	mg/l	0.001
	RC02	1.0	0.005	0.00025	mg/l	0.0006
	RC03	1.0	0.005	0.00025	mg/l	0.0004
	RC07-A	0.5	0.005	0.00025	mg/l	0.0003
	RC10	0.3	0.005	0.00025	mg/l	0.0004
	WS02	0.3	0.005	0.00025	mg/l	0.0006
	WS03	1.0	0.005	0.00025	mg/l	0.0021
Chromium	RC03	0.3	0.05	0.0047	mg/l	0.028
	TP01	0.3	0.05	0.0047	mg/l	0.055
Copper	RC01	0.5	2	0.02532	mg/l	0.11
	RC02	1.0	2	0.02532	mg/l	0.058
	RC03	0.3	2	0.02532	mg/l	0.087
	TP03	0.5	2	0.02532	mg/l	0.031
Iron	CP01	0.5	0.2	1	mg/l	0.31
	CP01	1.5	0.2	1	mg/l	0.32
	CP02	0.5	0.2	1	mg/l	0.37

Determinant	Exploratory Hole	Depth (m BGL)	DWS	EQS	Unit	Exceedance result
	RC01	0.5	0.2	1	mg/l	3.41
	RC01	1.8	0.2	1	mg/l	1.63
	RC02	1	0.2	1	mg/l	2.82
	RC08	0.5	0.2	1	mg/l	1.34
	RC10	0.3	0.2	1	mg/l	0.44
	TP01	0.3	0.2	1	mg/l	0.22
	TP03	0.5	0.2	1	mg/l	0.69
	TP08A	0.5	0.2	1	mg/l	0.24
	TP10	0.5	0.2	1	mg/l	0.42
	TP11	0.3	0.2	1	mg/l	0.45
	WS02	0.3	0.2	1	mg/l	0.25
	WS05	0.2	0.2	1	mg/l	1.1
	WS06	0.5	0.2	1	mg/l	1.61
Lead	RC01	0.5	0.01	0.00664	mg/l	0.066
	RC01	1.8	0.01	0.00664	mg/l	0.015
	RC02	1.0	0.01	0.00664	mg/l	0.029
	RC07-A	0.5	0.01	0.00664	mg/l	0.008
	RC08	0.5	0.01	0.00664	mg/l	0.04
	TP03	0.5	0.01	0.00664	mg/l	0.017
	WS05	0.2	0.01	0.00664	mg/l	0.038
	WS06	0.5	0.01	0.00664	mg/l	0.018
Nickel	WS03	1.0	0.02	0.01947	mg/l	0.05
Phenol	BH105	0.6	0.0005	0.0077	mg/l	0.0032
	CP01	1.5	0.0005	0.0077	mg/l	0.0027
	RC02	0.1	0.0005	0.0077	mg/l	0.0012
	RC03	0.3	0.0005	0.0077	mg/l	0.0139
	RC05	0.3	0.0005	0.0077	mg/l	0.0075
	RC09	0.3	0.0005	0.0077	mg/l	0.0024
	RC10	0.3	0.0005	0.0077	mg/l	0.001
	TP01	0.3	0.0005	0.0077	mg/l	0.0128
	TP02	0.2	0.0005	0.0077	mg/l	0.0042
	TP03	0.5	0.0005	0.0077	mg/l	0.0021
	TP04	0.5	0.0005	0.0077	mg/l	0.0064
	TP06	0.2	0.0005	0.0077	mg/l	0.003
	TP08A	0.5	0.0005	0.0077	mg/l	0.0027
	TP09	0.2	0.0005	0.0077	mg/l	0.0042
	TP10	0.5	0.0005	0.0077	mg/l	0.0047
	TP11	0.3	0.0005	0.0077	mg/l	0.0037
	WS03	1	0.0005	0.0077	mg/l	0.0007
	WS05	0.2	0.0005	0.0077	mg/l	0.0036
	WS06	0.5	0.0005	0.0077	mg/l	0.0078
Zinc	BH105	0.6	5	0.02712	mg/l	0.196
	CP01	1.5	5	0.02712	mg/l	0.054
	CP02	0.5	5	0.02712	mg/l	0.101
	RC01	0.5	5	0.02712	mg/l	0.132
	RC01	1.8	5	0.02712	mg/l	0.056

Determinant	Exploratory Hole	Depth (m BGL)	DWS	EQS	Unit	Exceedance result
	RC02	1	5	0.02712	mg/l	0.204
	RC03	0.3	5	0.02712	mg/l	0.03
	RC03	1.0	5	0.02712	mg/l	0.212
	RC06	0.5	5	0.02712	mg/l	0.034
	RC07-A	0.5	5	0.02712	mg/l	0.085
	RC08	0.5	5	0.02712	mg/l	0.076
	TP03	0.5	5	0.02712	mg/l	0.079
	TP08A	0.5	5	0.02712	mg/l	0.059
	TP11	0.3	5	0.02712	mg/l	0.047
	WS02	0.3	5	0.02712	mg/l	0.075
	WS03	1.0	5	0.02712	mg/l	0.083
	WS05	0.2	5	0.02712	mg/l	0.083
	WS06	0.5	5	0.02712	mg/l	0.109
Chromium (III) Oxide	TP01	0.3	-	0.0047	mg/l	0.007
Chromium - Hexavalent	RC02	0.1	-	0.0034	mg/l	0.01
	RC03	0.3	-	0.0034	mg/l	0.023
	TP01	0.3	-	0.0034	mg/l	0.048
Ammoniacal Nitrogen as N	CP02	0.5	0.38	0.78	mg/l	1.2
	RC01	1.8	0.38	0.78	mg/l	6.4
	RC02	1.0	0.38	0.78	mg/l	2.9
	TP11	0.3	0.38	0.78	mg/l	0.6
Manganese	BH105	0.6	0.05	0.975	mg/l	3.522
	CP01	1.5	0.05	0.975	mg/l	0.172
	RC01	0.5	0.05	0.975	mg/l	0.053
	RC01	1.8	0.05	0.975	mg/l	0.352
	RC02	1	0.05	0.975	mg/l	0.681
	RC03	1	0.05	0.975	mg/l	1.034
	RC07-A	0.5	0.05	0.975	mg/l	0.215
	TP08A	0.5	0.05	0.975	mg/l	1.221
	TP10	0.5	0.05	0.975	mg/l	0.157
	TP11	0.3	0.05	0.975	mg/l	0.104
	WS02	0.3	0.05	0.975	mg/l	0.385
	WS03	1	0.05	0.975	mg/l	5.935
	WS06	0.5	0.05	0.975	mg/l	0.103
Sulphate as SO4	WS02	0.3		400	mg/l	701
	RC03	1	250	400	mg/l	351
Anthracene	TP02	0.2	-	0.0001	mg/l	0.00172
Fluoranthene	TP01	0.3	-	0.0000063	mg/l	0.000128
	TP02	0.2	-	0.0000063	mg/l	0.00316
	TP03	0.5	-	0.0000063	mg/l	0.000186
	TP06	0.2	-	0.0000063	mg/l	0.000057
	TP08A	0.5	-	0.0000063	mg/l	0.000082
	TP09	0.2	-	0.0000063	mg/l	0.000104
Benzo(a)pyrene	TP11	0.3	-	0.0000063	mg/l	0.000095
	TP01	0.3	0.00001	0.00000017	mg/l	0.000038
	TP02	0.2	0.00001	0.00000017	mg/l	0.000114

Determinant	Exploratory Hole	Depth (m BGL)	DWS	EQS	Unit	Exceedance result
	TP03	0.5	0.00001	0.00000017	mg/l	0.0002
	TP08A	0.5	0.00001	0.00000017	mg/l	0.000034
	TP11	0.3	0.00001	0.00000017	mg/l	0.000015
Aromatics >C12-C16	TP02	0.2	0.01	-	mg/l	0.013
Aromatics >C21-C35	TP02	0.2	0.01	-	mg/l	0.01
	TP03	0.5	0.01	-	mg/l	0.01
Aromatics >C16-C21	TP02	0.2	0.01	-	mg/l	0.032

Source: <Insert Notes or Source>

Groundwater samples were also assessed by screening against Environmental Quality Standards and Drinking Water Standards.

Table 12: Groundwater exceedance results

Determinant	Exploratory Hole	DWS	EQS	Unit	Exceedance result
Ammoniacal Nitrogen as N	RC01	0.38	0.78	mg/l	0.8
	RC03	0.38	0.78	mg/l	1.8
	WS01	0.38	0.78	mg/l	1.8
	WS03	0.38	0.78	mg/l	1.0
Manganese	BH105	0.05	0.975	mg/l	0.452
	CP01	0.05	0.975	mg/l	0.126
	RC01	0.05	0.975	mg/l	0.28
	RC03	0.05	0.975	mg/l	3.403
	WS01	0.05	0.975	mg/l	1.919
	WS03	0.05	0.975	mg/l	3.648
Selenium	RC01	0.01	-	mg/l	0.013
Fluoranthene	RC01	-	0.0000063	mg/l	0.000159
	WS01	-	0.0000063	mg/l	0.000075
Benzo(a)pyrene	RC01	0.00001	0.00000017	mg/l	0.000068
	WS01	0.00001	0.00000017	mg/l	0.000047
Aliphatics >C10-C12	CP01	0.01	-	mg/l	0.026
	RC03	0.01	-	mg/l	0.01
Aliphatics >C12-C16	RC01	0.01	-	mg/l	0.013
Aromatics >C21-C35	RC01	0.01	-	mg/l	0.045

The leachate testing undertaken indicates that the made ground present at the site has the potential to act as a source of contamination. This is however dependant on the volume of leachate generated by rainwater ingress into the ground, dispersion, and attenuation of organics and inorganics on their pathway towards the groundwater.

Of the contaminants present at concentrations above the relevant EQS and/or DWS in the leachate, ammoniacal nitrogen, manganese, fluoranthene, benzo(a)pyrene and aromatic hydrocarbons in the range >C21-C35 have been identified at concentrations exceeding the EQS and/or DWS in groundwater.

The leachate samples with elevated concentrations of ammoniacal nitrogen taken from RC01 and RC03 are from natural strata beneath the made ground. This leaves two made ground leachate samples exceeding the screening criteria from CP02 and TP11 located close together at the extreme eastern end of the site. Consequently, it is considered most likely that the

elevated concentrations of ammoniacal nitrogen observed in groundwater in RC01, RC03, WS01 and WS03 originate from an off-site source or from the decomposition of organic material within the Alluvium.

Elevated concentrations of manganese were observed in both groundwater and leachate samples. A total of 28 leachate tests on samples from the made ground have been analysed for manganese. Of these 28 samples 13 have been found to exceed the EQS or DWS value with a mean concentration of 0.47mg/l and a median concentration of 0.039mg/l. The observed concentrations of manganese in groundwater are typically higher than those in leachate with a mean concentration of 1.64mg/l based on the six samples taken. This suggests that the observed elevated concentrations of manganese may be derived from off-site or natural sources.

Concentrations of benzo(a)pyrene and fluoranthene exceed the EQS value in groundwater samples taken from RC01 and WS01 at the western end of the site. Due to their low mobility in groundwater these contaminants are unlikely to migrate off site at concentrations exceeding the DWS or EQS value. A simple modelling exercise using the Environment Agency's remedial targets worksheet (RTW) has been carried out to confirm this. Details are included in Appendix E. The RTW modelling undertaken indicates concentrations of benzo(a)pyrene and fluoranthene will not have reached concentrations exceeding the laboratory detection limit 10m from the hypothetical source area after 1,000 years. Consequently, the observed concentrations of these contaminants in groundwater are considered to pose a low risk to controlled waters as the nearest surface waterbody is 75m from the site boundary.

The observed concentrations of aromatic hydrocarbons (>C21-C35) have been assessed through reference to screening criteria for individual PAH compounds.

Where new areas of soft landscaping are proposed this has the potential to increase infiltration rates and mobilise additional contaminants. This risk will be addressed by removing made ground from these areas prior to importing clean topsoil/ subsoil.

The Contractor must prepare and implement a robust Site Environmental Management Plan (SEMP) setting out the reasonable and precautionary steps to minimise pollution of controlled waters during the construction phase.

6.6 Risks to sub-surface infrastructure

6.6.1 Risks from soil to buried concrete

The required Design Sulphate Class and Aggressive Chemical Environment for Concrete (ACEC) Class for the site have been calculated considering the available soil chemistry results presented in the ESG Factual Report (3) and the guidance provided in BRE Special 1:2005. The design sulphate class is DS-1 and ACEC class is AC-1. The results have been detailed within Mott MacDonald Fortis Quay, Interpretative Ground Investigation Report (4).

6.6.2 Risks from soil to potable water mains

Contaminant concentrations have been reviewed to determine the most appropriate material for water pipes within the proposed development. This has been undertaken in accordance with UKWIR Publication 10/WM/03/21 (19) and is summarised in Table 13 below.

Table 13: Pipe selection risk assessment summary (PSRAS) (19)

Test Group	PE pipe threshold	PVC pipe threshold	Maximum site concentration (mg/kg)	Locations and depths where concentrations exceed PE pipeline threshold	Locations and depths where concentrations exceed PVC pipeline threshold
Total VOCs	0.5	0.125	0.32	N/A	RC05 0.3m
Total BTEX and MBTE	0.1	0.03	0.021	N/A	TP02 0.2m
Total SVOCs (excluding PAHs and those substances marked with *)	2	1.4	0.8	N/A	N/A
EC5-EC10 aliphatic and aromatic hydrocarbons	2	1.4	5.67	RC04 – 0.5m	RC04 – 0.5m
EC10-EC16 aliphatic and aromatic hydrocarbons	10	N/A	656.1	CP02 0.5m, RC02 0.1m, RC03 0.3m, RC03, 1m, RC04 0.5m, RC05 0.3m, RC09 0.3m, TP02 0.2m, TP03 0.5m, TP06 0.2m, TP08A 0.5m, WS01 0.1m, WS02 0.3m, WS03 1m, WS05 0.2m	N/A
EC16-EC40 aliphatic and aromatic hydrocarbons	500	N/A	7282	RC02 0.1m, RC04 0.5m, RC05 0.3m, RC09 0.3m, TP06 0.2m, TP11 0.3m, WS01 0.5m	N/A
Phenols (from SVOC analysis)	2	0.4	<0.3	N/A	N/A
Cresols and chlorinated phenols (from SVOC analysis)	2	0.04	<0.3	N/A	N/A

The UKWIR methodology indicates that PE and PVC water supply pipes would be unsuitable for parts of the site. It will be necessary to liaise with United Utilities regarding the material to be used for water supply pipes on the site. It may be necessary to use barrier pipe or ductile iron pipes.

6.7 Risk assessment summary

The risks arising due to the presence of land contamination have been evaluated using the criteria in Appendix C (Risk Categorisation tables). Table 14 summarises the potential risks at the site, using applicable guidance, based on results from the soil, groundwater and gas monitoring and using the identified sources, pathways, and receptors as summarised in the previous sections.

The risk assessment has been undertaken in the absence of mitigation and also where standard mitigation strategies that are typically adopted as part of construction works and presented in a construction environmental management plan are implemented.

Table 14: CSM and contamination risk evaluation

Source	Pathway	Receptor	Unmitigated risk			Mitigated risk			Comments/ mitigation measures
			Consequence	Probability	Risk	Consequence	Probability	Risk	
S1: Widespread made ground due to past industrial land use and historical infilling. S2: Historical electrical substations.	P1a: Direct soil and dust ingestion; P1b: Dermal uptake (indoor and outdoor);	R3: Construction and maintenance workers	Medium	Likely	Moderate	Medium	Unlikely	Low	Use of appropriate personal protective equipment (PPE) and good site hygiene procedures.
		R1: Site end users	Medium	Likely	Moderate	Medium	Low likelihood	Low	Contaminated soils at the site have the potential to pose a risk to human health. This will be managed through the installation of a suitable cover layer where soft landscaping is present and hardstanding elsewhere on the site. Where new areas of soft landscaping are proposed made ground will be removed to allow for the placement of clean topsoil and subsoil.
	P1c: Inhalation of dust and vapours indoor and outdoor;	R2: Adjacent site users	Mild	Low likelihood	Low	Mild	Unlikely	Very low	Risks are to be reduced by the use of a robust Site Environment Management Plan (SEMP). Appropriate disposal and storage management of excavated material to ensure minimal dust production and migration.
	P2: Production and vertical migration of leachates in unsaturated zone P3: Vertical and horizontal migration of contaminants in saturated zone	R5: Groundwater in the underlying made ground, Alluvium (Secondary A aquifer), Glaciofluvial Depoists (Secondary A aquifer), , Glacial Till and Chester Formation of the Sherwood Sandstone Group (Principal aquifer)	Medium	Low likelihood	Moderate/low	Medium	Low likelihood	Low	The risk of mobilising additional contamination to the strata below will be minimised with the use of a robust SEMP. Management plans should be prepared to deal with any unexpected contamination discovered during construction. Made ground will be removed from beneath the footprint of the Grapnel and Northill apartment buildings and from the areas where foundation strengthening will be undertaken for the Danforth and Herreshoff buildings. Made ground will also be removed from beneath any new areas of soft landscaping.
	P6: Man made pathways	R5: Groundwater in the underlying made ground, Alluvium (Secondary A aquifer), Glaciofluvial Depoists (Secondary A aquifer), ,Glacial Till and Chester Formation of the Sherwood Sandstone Group (Principal aquifer)	Medium	Likely	Moderate	Medium	Unlikely	Low	A foundation works risk assessment will be undertaken for the proposed piled foundations. This will outline suitable mitigation measures to ensure that the construction of piled foundations does not pose an unacceptable risk to human health or controlled waters.
S3: Off-site contamination due to historical industrial land use	P5: Direct contact with buried structures and infrastructure	R4: Fabric of building and infrastructure;	Mild	Likely	Moderate	Mild	Unlikely	Very low	Buried concrete to be designed in accordance with BRE Special Digest No.1. New water supply pipes to be designed according to UKWIR specifications in consideration of the ground conditions encountered.
	P1b: Dermal uptake (indoor and outdoor) P4: Horizontal and vertical migration of contaminated groundwater/liquids through permeable strata	R3: Construction and maintenance workers R1: Site end users	Medium Medium	Likely Likely	Moderate Moderate	Medium Medium	Unlikely Unlikely	Low Low	Use of appropriate personal protective equipment (PPE) and good site hygiene procedures. It is unlikely that site end users will come into direct contact with groundwater.
S1: Widespread made ground due to past industrial land use and historical infilling S3: Off-site contamination due to historical industrial land use S4: Alluvium	P4: Ground gas migration;	R3: Construction and maintenance workers	Severe	Low likelihood	Moderate	Severe	Unlikely	Low	Use of appropriate PPE and confined space working protocols, where necessary.
		R1: Site end users	Severe	Low likelihood	Moderate	Severe	Unlikely	Low	Appropriate gas protection measures will be installed in the Grapnel and Northill apartment buildings. The designers of the refurbishment works for the Danforth and Herreshoff buildings must consider the ground gas regime at the site and whether additional gas protection measures and/or post construction monitoring are required for these buildings.

7 Waste Management Considerations

An assessment of the soil analysis results has been undertaken using HazWaste Online™ (20) to confirm results with previous assessment in accordance with Landfill Regulations 2002 (as amended) and EA guidance (WM3) (Environment Agency, 2015). It is the responsibility of the producer to ensure that all waste created on-site undergoes basic characterisation prior to disposal in an appropriate landfill. An indication of the likely waste classification of soils at the site is provided here.

7.1 European Waste Catalogue Codes

The European Waste Catalogue (EWC) classifies waste in accordance with the Hazardous Waste Regulations (2005). The waste is allotted an EWC code and named as a non-hazardous, hazardous absolute, or mirror entry. An absolute entry represents a material that is hazardous based on its description, regardless of its chemical composition, whereas mirror entries may be hazardous only if hazardous substances are present above certain thresholds.

Non-hazardous entries are also classified on the basis of their description, regardless of their chemical composition. The Landfill (England and Wales) Regulations 2002 define inert wastes. The wastes expected to be generated during the construction works at the Site together with their EWC code are included in Table 15. This is a non-exhaustive list for guidance only, and the waste producer should record EWC codes for different waste types as they are generated on-site in the Site Waste Management Plan, and on waste transfer or consignment notes.

Table 15: EWC Codes for Anticipated Waste

Site Materials	EWC Code	EWC Materials Description	Waste Disposal Classification
Made ground	17 05 03*	Soil and stones containing dangerous substances	Mirror Hazardous
Made ground	17 05 04	soil and stones other than those mentioned in 17 05 03	Mirror Non-Hazardous
Concrete	17 01 01	Concrete	Mirror Non-Hazardous
Bricks	17 01 02	Bricks	Mirror Non-Hazardous
Mixtures of materials in Made ground	17 01 06*	Mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing hazardous substances	Mirror Hazardous
Mixtures of materials in Made ground	17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	Mirror Non-Hazardous
Wood from vegetation clearance	17 02 01	Wood	Mirror Non-Hazardous
Blacktop	17 03 01*	Bituminous mixtures containing coal tar	Mirror Hazardous
Blacktop	17 03 02	Bituminous mixtures other than those mentioned in 17 03 01	Mirror Non-Hazardous
Blacktop	17 03 03*	Coal Tar and tarred products	Absolute Hazardous

Site Materials	EWC Code	EWC Materials Description	Waste Disposal Classification
Bedrock	17 05 03*	Soils and stones containing dangerous substances	Mirror Hazardous
Bedrock	17 05 04	soil and stones other than those mentioned in 17 05 03	Mirror Non-Hazardous
Made ground containing other hazardous substances	17 09 03*	other construction and demolition wastes (including mixed wastes) containing hazardous substances	Mirror Hazardous
Mixed demolition wastes	17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	Mirror Non-Hazardous

Source: WM3

To determine the likely waste classification of the material HazWaste Online™ has been used to assess any hazardous properties.

7.2 Waste Classification of On-Site Materials

Preliminary waste classification has been undertaken on forty-one soil samples. The samples highlighted by Hazwaste Online™ as potentially being classified as hazardous waste if they are removed from the site have been summarised in Table 16.

Table 16: HazwasteOnline summary

EWC Code	Exploratory hole and depth	Hazardous Properties	Comments	Strata description
Hazardous Waste				
17 05 03*	RC03 – 0.3m	HP 8: Corrosive HP 2: Oxidizing	Classified as hazardous due to: Chromium (VI) – 0.2mg/kg pH -11.6	Sand gravel of brick, clinker, concrete, slate and quartzite
17 05 03*	RC05 – 0.3m	HP 3(i): Flammable	TPH (C6-C40) – 8640 mg/kg	Slightly sandy gravel of sandstone and macadam. With high cobble content of sandstone and macadam.
17 05 03*	RC09 – 0.3m	HP 3(i): Flammable	TPH (C6-C40) – 3980mg/kg	Sandy gravel of sandstone, quartzite and brick.
17 05 03*	TP06 – 0.2m	HP 3(i): Flammable HP 7(i): Carcinogenic HP 11: Mutagenic HP 14: Ecotoxic	Benzene – 0.002mg/kg Benzo(a)anthracene – 32.6mg/kg TPH (C6-C40) – 1309mg/kg	Ashy sand with plastic, wood, rubber, and metal fragments. Gravel of brick, concrete, sandstone, coal. Clinker and mudstone. Low cobble content of content of concrete.

EWC Code	Exploratory hole and depth	Hazardous Properties	Comments	Strata description
17 05 03*	TP11 – 0.3m	HP 3(i): Flammable HP 7: Carcinogenic HP11: Mutagenic	1,2,4-trimethylbenzene – 0.005mg/kg TPH (C6-C40) – 2520mg/kg	Sandy slightly silty gravel of sandstone, quartzite, brick and macadam.
17 05 03*	WS01 – 0.5m	HP 3(i): Flammable HP 7(i): Carcinogenic HP 11: Mutagenic	TPH (C6-C40)- 1409mg/kg	Sandy gravel of sandstone and quartzite. With high cobble content of sandstone and quartzite.

As part of the assessment the TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions. Further rationale for the assessment of metal species are detailed within Appendix B of the waste classification report located within Appendix E of this report.

This assessment does not consider the presence of asbestos in the samples. If free and dispersed asbestos is present at a quantity of greater than 0.1%, the waste would be classed as hazardous. As part of further testing, asbestos quantification is to be completed and waste assessment revised based on the results.

7.3 Summary

To ensure onsite waste management is in line with best practice and the Waste Hierarchy (EU Waste Framework Directive), the following measures are recommended:

- Final classification of waste soils should be carried out by the waste producer (contractor) prior to disposal with representative samples taken from stockpiles of excavated material;
- Full characterisation of waste material should be undertaken in accordance with the EA Hazardous Waste guidance WM3 (21);
- Once waste characterisation has been undertaken, Waste Acceptance Criteria (WAC) testing in accordance with BS EN 12457-3 (22), Environmental Permitting Regulations (EPR) 2010 (as amended) and the Landfill Directive (1999/31/EC) may be required to establish the acceptability of wastes for landfill disposal; and
- The Contractor must ensure a permitted waste carrier is used to convey the waste material off-site to a suitably permitted facility.

It is recommended that a Site Waste Management Plan (SWMP) identifying the management and permit procedures for construction waste streams generated at the site is prepared in line with the Environmental Permitting Regulations 2010.

8 Conclusions and Recommendations

8.1 Conclusions

Mott MacDonald were commissioned by Beaumont Morgan to undertake a Contaminated Land Risk Assessment (CLRA) based on the findings of a ground investigation undertaken between 22nd May and 23rd June 2017 on the site. This report supports the Mott MacDonald design for civil and structural engineering services to the Northhill Apartments and Grapnel Apartments as well as site wide drainage, pavement and highway design.

Elluc Projects has been appointed to carry out the Civil & Structural design for extensions to Custom House and Furness House. Elluc Projects in turn appointed Resource and Environmental Consultants Ltd (REC) to undertake a Phase I and Phase II Geo-environmental Site Assessment (1). This report incorporates and updates the findings of the REC assessment.

This document is intended to support the discharge of Condition 6 attached to planning permission 17/70682/FUL.

The ground investigations confirmed the published geology of the site with a layer of made ground underlain by Alluvium and possible Glaciofluvial Deposits across the majority of the site. Glacial Till underlies the made ground at the north-eastern end of the site. The superficial deposits are in turn underlain by the Sherwood Sandstone Group, a Principal aquifer.

A review of the available groundwater monitoring data has been undertaken. It appears likely that groundwater within the superficial deposits is largely in continuity with groundwater in the underlying Sherwood Sandstone Group due to the presence of lenses of granular material within the superficial deposits although some areas of potentially perched water have been identified. It is considered most likely that groundwater flow is towards the south and west.

The ground investigation has identified elevated concentrations of contaminants in made ground across the site. The made ground will be removed from the footprints of the proposed Northhill and Grapnell Apartments and from new areas of soft landscaping. Therefore, risks posed to human health will be managed by a combination of capping with hardstanding, cover systems and the removal of made ground from new areas of soft landscaping.

Ground gas monitoring results have been assessed in accordance with BS8485. The site has been classified as having a characteristic situation 2 and gas protection measures will be required in new buildings. The designers of the proposed refurbishment of the Danforth and Herreshoff buildings must consider the ground gas regime at the site and whether additional gas protection measures and/or post construction monitoring are required for these buildings.

A review of groundwater quality monitoring and soil leachate testing indicates that the made ground at the site may be a source of elevated concentrations of PAH and manganese in groundwater. The observed concentrations of PAH are considered to pose a low risk to controlled waters due to their low mobility. The observed concentrations of manganese in groundwater are considered most likely to originate from off site or natural sources.

Following the removal of made ground from the footprints of the proposed Northhill and Grapnell Apartments and from new areas of soft landscaping the risks to groundwater are assessed as low. Implementation of a robust SEMP will be required to minimise the risks to groundwater during construction.

A preliminary assessment of the likely waste classification of soils at the site has been undertaken. A total of 41 soils samples were tested and six of these samples would be classified as hazardous waste if they required off site disposal.

It is considered that, based upon the proposed construction and end use of the site, the contamination identified will not represent an unacceptable risk to identified receptors in the medium to long term, assuming the mitigation measures identified are effectively implemented. Excavation works should however be monitored and the SEMP must include a strategy for the management of unexpected contamination.

8.2 Recommendations

The following actions are recommended to ensure that the proposed development does not pose an unacceptable risk to human health and controlled waters:

- An asbestos specialist must be appointed to provide independent, expert advice on how to manage the risk posed by asbestos containing materials at the site;
- Gas protection measures consistent with a characteristic situation 2 as defined in BS8485 will be required in the Northhill and Grapnell apartments buildings;
- The designers of the proposed refurbishment of the Danforth and Herreshoff buildings must consider the ground gas regime at the site and whether additional gas protection measures and/or post construction monitoring are required for these buildings;
- Construction workers must adopt appropriate working practices including good site hygiene and use of personal protective equipment (PPE) to minimise their exposure to contaminated material;
- Construction workers must review risks posed by ground gases when working in potentially confined spaces with suitable method statements and safety procedures put in place as necessary;
- Where new areas of soft landscaping are to be created the existing made ground must be removed to minimise the risk to human health and controlled waters;
- Buried concrete must be designed in accordance with BRE Special Digest No.1;
- New water supply pipes must be designed according to UKWIR specifications in consideration of the ground conditions encountered;
- Where new areas of soft landscaping a proposed, existing made ground will be removed and replaced with clean topsoil and subsoil;
- The remainder of the site will be covered with a suitable capping material or cover layer;
- A robust site SEMP must be prepared for the site to minimise risks to the environment during the construction work, this must include measures to minimise dust generation; and
- A foundation works risk assessment shall be undertaken to assess the risks posed by the construction of piled foundations to human health and controlled waters and to determine suitable mitigation measures (if required).

9 Bibliography

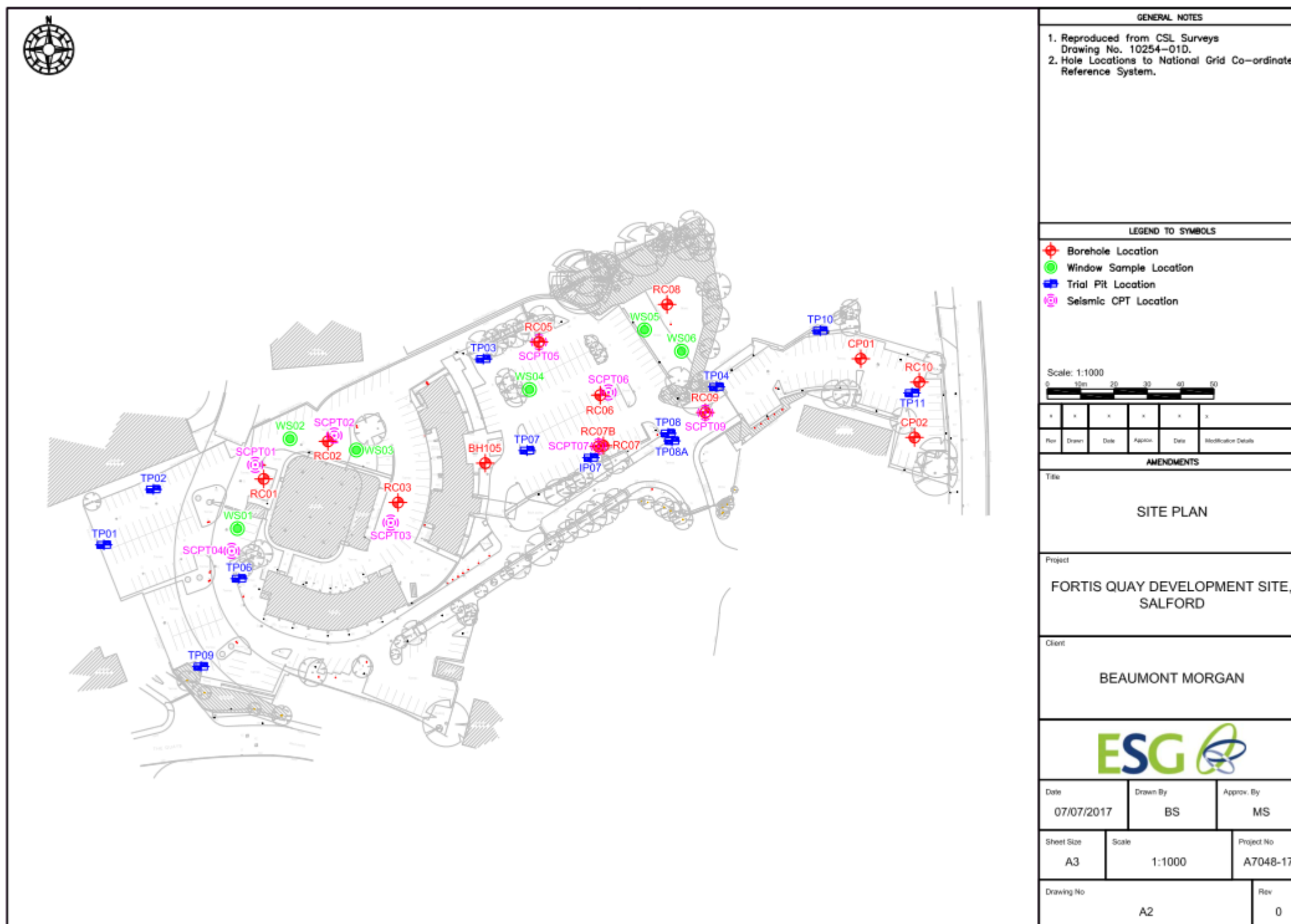
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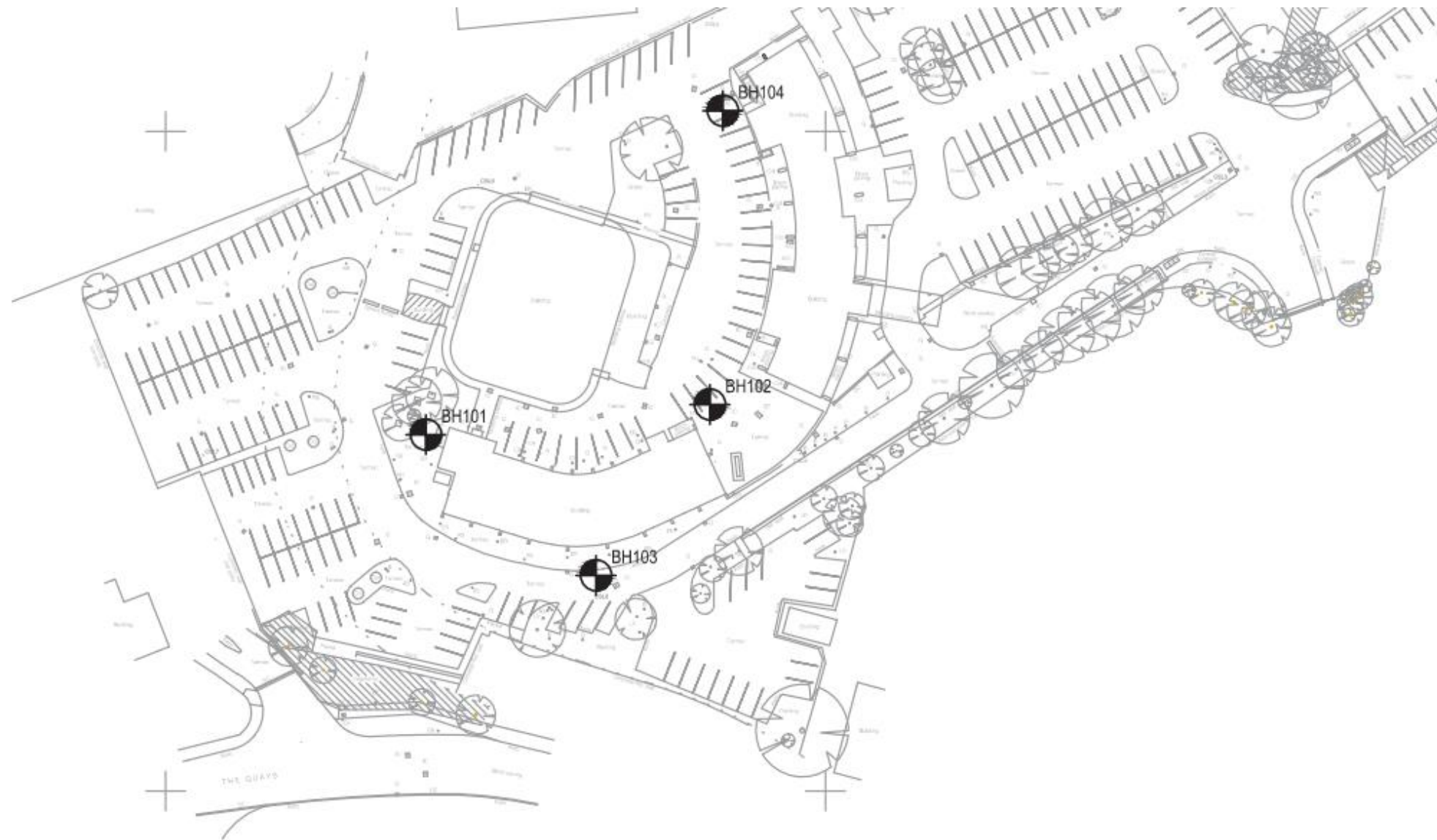
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Appendices

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A. Drawings





0 10 20 30 40 50m

Source: (1)

B. Contaminated Land: Regulatory and Planning Framework

B.1 Statute

B.1.1 Environmental Protection Act, Part IIA

The primary legislative regime under which historic contaminated land is managed in the UK is Part IIA of the Environmental Protection Act, 1990 (termed “Part IIA”). The framework for the assessment of potential land contamination adopted in this report is based on current guidance documents regarding the implementation of Part IIA and the assessment of potentially contaminated land, with particular reference to:

- DEFRA (2012) (23):
“Environmental Protection Act 1990: Part 2A, Contaminated Land Statutory Guidance”;
- Contaminated Land Research Report SC050021/SR2 (10) and SR3
(11) describing the UK Contaminated Land Exposure Assessment Framework for assessing human health risks;
- British Standard (BS) 10175:2011+A1:2013 (24) “Investigation of Potentially Contaminated Sites”;
- British Standards Institution (2015) “Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings”, BS8485:2015;
- CIRIA C665 (25) “Assessing Risks posed by hazardous ground gases to buildings”;
- (26) Groundwater Protection Guidance

Part IIA principally deals with sites where individual historic contamination linkages present a “Significant Possibility of Significant Harm” (SPOSH) or a Significant Possibility of Significant Pollution to Controlled Waters (SPOSPCOW) representing an unacceptable level of contamination risk for each linkage. The Part IIA clean-up is the minimum which can be done on a cost basis to make and keep the site in a “just safe” condition for an existing use. In determining SPOSPCOW, the requirements of the Groundwater Daughter Directive are taken into account under the Part IIA framework.

For the purposes of this study, contamination and environmental considerations are studied by developing a conceptual model of the site that describes the environmental features of the site together with the expected interaction of potential contamination sources and the wider environment. Where data allows, the risk assessment considers site contamination data against generic risk based thresholds for the contamination linkages identified in the conceptual model.

The risks to each receptor are summarised qualitatively in section 6.7.

Where significant contaminant linkages are identified, liability may accrue to persons who caused or knowingly permitted such contamination or the owners / occupiers of the site.

Professional legal advice should be sought from others to assess liability for contaminated land remediation.

Section 78A(7) of the Environmental Protection Act 1990 part IIA defines remediation as:

“(a) the doing of anything for the purpose of assessing the condition of – (i) the contaminated land in question; or (ii) any controlled waters affected by that land; or (iii) any land adjoining or adjacent to that land; (b) the doing of any works, the carrying out of any operations or the taking of any steps in relation to any such land for the purpose – (i) of preventing or minimising, or remedying or mitigating the effects of, any significant harm (or significant pollution of controlled waters), by reason of which the contaminated land is such land; or (ii) of restoring the land or waters to their former state; or (c) the making of subsequent inspections from time to time for the purpose of keeping under review the condition of the land or waters.

B.1.2 Water Resources Act 1991

In addition to liabilities under Part IIA of the Environmental Protection Act 1990, liabilities may also result from historic groundwater pollution under section 161 of the Water Resources Act. Section 161 allows the Environment Agency to recover the costs of cleaning up any poisonous, noxious or polluting matter or any solid waste matter that persons have caused or knowingly permitted to be present in controlled waters.

C. Qualitative Risk Assessment Methodology

The following classification published by the NHBC, EA, and CIEH (27) has been used to summarise contamination risks in this report. The methodology differs from that presented in Contaminated Land Risk Assessment, A Guide to Good Practice (CIRIA C552, 2001) (28), particularly in terms of the definitions of classification of consequence, which include a consideration of immediacy of hazards.

The key to the classification is that the designation of risk is based upon the consideration of both:

- **the magnitude of the potential consequence (i.e. severity).**
[takes into account both the potential severity of the hazard and the sensitivity of the receptor]
- **the magnitude of probability (i.e. likelihood).**
[takes into account both the presence of the hazard and receptor and the integrity of the pathway]

The potential consequences of contamination risks occurring at this Site are classified in accordance with Table 17 below:

Table 17: Classification of Consequence

Classification	Definition of Consequence
Severe	Highly elevated concentrations likely to result in “significant harm” to human health as defined by the EPA 1990, Part 2A, if exposure occurs. Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.
Medium	Catastrophic damage to crops, buildings or property. Elevated concentrations which could result in “significant harm” to human health as defined by the EPA 1990, Part 2A if exposure occurs. Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.
Mild	Significant damage to crops, buildings or property. Exposure to human health unlikely to lead to “significant harm”. Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce. Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial

Classification	Definition of Consequence
	adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.
Minor	Minor damage to crops, buildings or property. No measurable effect on humans. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services.

Source: EA, CIEH, NHBC, R&D66:2008

The probability of contamination risks occurring at this Site will be classified in accordance with Table 18 below. Note: A pollution linkage must first be established before probability is classified. If there is no pollution linkage then there is no potential risk. If there is no pollution linkage then there is no need to apply tests for probability and consequence.

Table 18: Classification of Probability

Classification	Definition of Probability
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.

Source: EA, CIEH, NHBC, R&D66:2008

For each possible pollution linkage (source-pathway-receptor) identified, the potential risk can be evaluated based upon the following probability x consequence matrix shown in Table 19 below:

Table 19: Overall Qualitative Contamination Risk Matrix

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Moderate / Low risk	Low risk
	Low likelihood	Moderate risk	Moderate / Low risk	Low risk	Very low risk
	Unlikely	Moderate / Low risk	Low risk	Very low risk	Very low risk

Source: EA, CIEH, NHBC, R&D66:2008

R&D 66:2008 presents definitions of the risk categories, together with the investigatory and remedial actions that are likely to be necessary in each case. These definitions are reproduced in Table 20. These risk categories apply to each pollutant linkage, not simply to each hazard or receptor.

Table 20: Definition of Risk Categories and Likely Actions Required

Risk Category	Definition and likely actions required
Very high	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.
Low	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Very low	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
No potential risk	There is no potential risk if no pollution linkage has been established.

Source: EA, CIEH, NHBC, R&D66:2008

Total petroleum hydrocarbon thresholds should be used to calculate an individual hazard quotient (HQ) for each fraction. The HQs are summed to provide a Hazard Index (HI) representing additive risks from all Petroleum Hydrocarbons. Where the HI exceeds unity, the minimal / tolerable risk threshold is deemed to have been exceeded.

D. Solid, Leachate and Groundwater Test Result Summary Sheets

		Name	BH101	BH102	BH103	BH104
		Depth (m)	1	0.5	2	0.5
Determinant Name	Units	Residential without Produce 1% SOM				
Acenaphthene	mg/kg	3000	0.17	0.72	<0.05	59.49
Acenaphthylene	mg/kg	2900	0.2	0.58	0.04	2.04
Aliphatics >C10-12	mg/kg	130	<10	<10	<10	<10
Aliphatics >C12-16	mg/kg	1100	<10	72	121	85
Aliphatics >C16-21	mg/kg	-	139	285	211	165
Aliphatics >C21-35	mg/kg	-	1232	1128	180	6665
Aliphatics >C8-10	mg/kg	27	<5	11	<5	<5
Aliphatics >C8-40	mg/kg	-	1371	1496	512	6915
Anthracene	mg/kg	31000	0.77	3.36	<0.04	5.8
Aromatics >C10-12	mg/kg	250	<10	<10	<10	<10
Aromatics >C12-16	mg/kg	1800	<10	72	121	85
Aromatics >C16-21	mg/kg	1900	139	285	211	165
Aromatics >C21-35	mg/kg	1900	1232	1128	180	6665
Aromatics >C8-10	mg/kg	47	<5	11	<5	<5
Aromatics >C8-40	mg/kg	-	1371	1496	512	6915
Arsenic	mg/kg	40	50.4	60.5	13	1.5
Asbestos (Presence of)	%	-	Asbestos de	Asbestos de	NAD	NAD
Asbestos Quantification	%	-	<0.001	<0.001	NAD	NAD
Benzo (g,h,i) perylene	mg/kg	360	1.1	3.36	0.06	0.82
Benzo(a)anthracene	mg/kg	11	1.73	4.81	0.13	1.64
Benzo(a)pyrene	mg/kg	3.2	1.8	5.37	0.13	1.49
Benzo(b)fluoranthene	mg/kg	3.9	2.44	6.58	0.14	2.02
Benzo(k)fluoranthene	mg/kg	110	0.95	2.56	0.05	0.79
Boron	mg/kg	11000	0.4	0.9	1.9	0.2
Cadmium	mg/kg	85	1.3	0.3	0.6	0.5
Chromium	mg/kg	-	15.6	26.2	44.2	15.9
Chromium - Hexavalent	mg/kg	6	<0.3	<0.3	<0.3	<0.3
Chromium (III) Oxide	mg/kg	910	15.6	26.2	44.2	15.9
Chrysene	mg/kg	30	1.93	5.16	0.09	2.5
Copper	mg/kg	7100	223	487	65	8
Cyanide Free as CN	mg/kg	-	<0.5	<0.5	<0.5	<0.5
Dibenz-a-h-anthracene	mg/kg	0.31	0.19	0.53	<0.04	<0.2
Fluoranthene	mg/kg	1500	4.03	12.1	0.1	5.79
Fluorene	mg/kg	2800	0.13	0.74	0.08	25.04
Indeno(1,2,3-cd)pyrene	mg/kg	45	1.21	3.88	0.08	0.88
Lead	mg/kg	310	135	663	89	24
Mercury (assumed inorganic)	mg/kg	56	<0.1	4.9	<0.1	<0.1
Napthalene	mg/kg	2.3	0.27	0.55	<0.04	0.33
Nickel	mg/kg	180	37.2	52.3	27	6.2
pH	pH Units	-	8.46	7.62	7.65	8.95
Phenanthrene	mg/kg	1300	1.99	7.89	0.23	14.15
Phenol	mg/kg	440	<0.15	<0.15	<0.15	<0.15
Pyrene	mg/kg	3700	3.37	10.27	0.09	4.11
Selenium	mg/kg	430	1	3	1	<1
Zinc	mg/kg	40000	207	604	166	34

E. Remedial targets worksheet

E.1 Introduction

The mobility of benzo(a)pyrene and fluoranthene in groundwater at the Fortis Quay site has been assessed using the Environment Agency's remedial targets worksheet (RTW) (29) (30) in order to determine if the observed concentrations of these contaminants pose a risk to controlled waters.

E.2 Input parameters

The input parameters used are included in Table 21. Conservative parameters have been selected in order to demonstrate the low risk of off-site migration of the contaminants.

Table 21: Remedial targets worksheet input parameters

Parameter	Value	Source and comments
Initial contaminant concentration in groundwater at plume core (benzo(a)pyrene)	0.000068mg/l	Maximum observed concentration in groundwater (3)
Half life for degradation of contaminant in water (benzo(a)pyrene)	1060 days	Literature value (31)
Organic carbon partition coefficient (benzo(a)pyrene)	1.29x105 l/kg	Literature value (31)
Initial contaminant concentration in groundwater at plume core (fluoranthene)	0.000159mg/l	Maximum observed concentration in groundwater during ESG ground investigation (3)
Half life for degradation of contaminant in water (fluoranthene)	880 days	Literature value (30)
Organic carbon partition coefficient (fluoranthene)	1.82x104 l/kg	Literature value (32)
Width of plume in aquifer at source (perpendicular to flow)	250m	Worst case based on total width of site (3)
Plume thickness at source	3.6	Thickness of shallowest sand and gravel lens in RC01 (3)
Saturated aquifer thickness	3.6	Thickness of shallowest sand and gravel lens in RC01 (3)
Bulk density of aquifer materials	2.1g/cm3	Typical bulk density of alluvium from ground investigation results (3)
Effective porosity of aquifer	0.2	Lower value for sand and gravel (33))
Hydraulic gradient	0.022	Maximum observed hydraulic gradient on site (3). Used for estimating worst case contaminant migration velocities, not considered representative of site wide conditions.
Hydraulic conductivity of aquifer	0.001m/d	Upper value for well sorted sand (33)
Distance to compliance point	10m	Arbitrary value to demonstrate low mobility of contaminants
Time since pollutant entered groundwater	365,000 days (1,000 years)	Arbitrary value to demonstrate low mobility of contaminants

Parameter	Value	Source and comments
Fraction of organic carbon in aquifer	0.0033	Minimum value from alluvium sampled during ESG ground investigation.

Source: <Insert Notes or Source>

9.1 Results

The RTW modelling undertaken indicates that measurable concentrations of benzo(a)pyrene and fluoranthene will not be present 10m from the source after 1,000 years. Consequently the observed concentrations of these contaminants in groundwater are considered to pose a low risk to controlled waters.

R&D Publication 20 Remedial Targets Worksheet, Release 3.2

Level 3 - Groundwater

See Note

Input Parameters (using pull down menu)

Contaminant	Benzo(a)pyrene	from Level 1
Target Concentration	C _T 1.70E-07	mg/l from Level 1

Select analytical solution (click on brown cell below, then on pull-down menu)

Domenico - Steady state	Equations in HRA publication
-------------------------	------------------------------

Approach for simulating vertical dispersion:

Simulate vertical dispersion in 1 direction

Select nature of decay rate (click on brown cell below, then on pull-down menu)

Approach for simulating degradation of pollutants:

Apply degradation rate to pollutants in all phases (e.g. field derived value)

Initial contaminant concentration in groundwater at plume core	C ₀	6.80E-05	mg/l	Source of parameter value
Half life for degradation of contaminant in water	t _{1/2}	1.06E+03	days	Maximum observed concentration
Calculated decay rate	λ	6.55E-04	days ⁻¹	Howard et al. 1991. Environmental Degradation
Width of plume in aquifer at source (perpendicular to flow)	Sz	2.50E+02	m	
Plume thickness at source	Sy	3.60E+00	m	Thickness of shallowest sand and gravel in RC01
Saturated aquifer thickness	da	3.80E+00	m	Thickness of shallowest sand and gravel (define dispersivity (click brown cell and use pull down list))
Bulk density of aquifer materials	p	2.10E+00	g/cm ³	Typical bulk density from ground investigation results
Effective porosity of aquifer	n	2.00E-01	fraction	Lower value for sand and gravel (Fetter 2001)
Hydraulic gradient	i	2.22E-02	fraction	Maximum observed hydraulic gradient on site
Hydraulic conductivity of aquifer	K	1.00E-03	m/d	Fetter (2001) upper value for well sorted sand
Distance to compliance point	x	1.00E+01	m	
Distance (lateral) to compliance point perpendicular to flow direction	z		m	
Distance (depth) to compliance point perpendicular to flow direction	y		m	
Time since pollutant entered groundwater	t	3.65E+04	days	time variant options only

Parameters values determined from options

Partition coefficient	Kd	4.25E+02	l/kg	see options
Longitudinal dispersivity	αx	1.00E+00	m	see options
Transverse dispersivity	αz	1.00E-01	m	see options
Vertical dispersivity	αy	1.00E-02	m	see options

Dispersed plume thickness exceeds aquifer thickness! Reduce vertical dispersivity

Calculated Parameters Variable

Groundwater flow velocity	v	1.11E-04	m/d	
Retardation factor	Rf	4.46E+03	fraction	
Decay rate used	λ	6.55E-04	d ⁻¹	
Rate of contaminant flow due to retardation	u	2.49E-08	m/d	
Contaminant concentration at distance x, assuming one-way vertical dispersion	C _{1D}	0.00E+00	mg/l	
Attenuation factor (one way vertical dispersion, COICED)	AF	breakthrough at compliance point		

Remedial Targets

Remedial Target	No impact	mg/l	For comparison with measured groundwater concentration.
Domenico - Steady state			
Distance to compliance point	10	m	
Concentration of contaminant at compliance point	C _{1D} /C ₀	0.00E+00	mg/l Domenico - Steady state

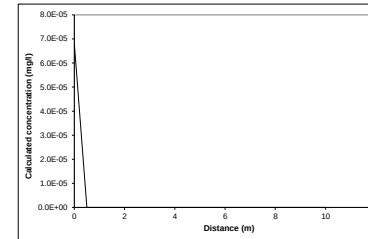
Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.



Select Method for deriving Partition Co-efficient (using pull down menu)

Calculate for non-polar organic chemicals

Entry if specify partition coefficient (option)	Kd		l/kg
Soil water partition coefficient			
Entry for non-polar organic chemicals (option)	foc	3.30E-03	fraction
Fraction of organic carbon in aquifer			
Organic carbon partition coefficient	Koc	1.29E+05	l/kg
Entry for ionic organic chemicals (option)	K _{oc,n}		l/kg
Sorption coefficient for related species	K _{oc,i}		l/kg
Sorption coefficient for ionised species	pH		
pH value	pKa		
acid dissociation constant	foc		fraction
Fraction of organic carbon in aquifer			
Soil water partition coefficient	Kd	4.25E+02	l/kg



Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Calculated concentrations for distance-concentration graph

Domenico - Steady state
From calculation sheet

Distance	Concentration
	mg/l
0	6.8E-05
0.5	5.10E-40
1.0	3.82E-75
1.5	2.87E-110
2.0	2.15E-145
2.5	1.61E-180
3.0	1.21E-215
3.5	9.07E-251
4.0	6.80E-286
4.5	0.00E+00
5.0	0.00E+00
5.5	0.00E+00
6.0	0.00E+00
6.5	0.00E+00
7.0	0.00E+00
7.5	0.00E+00
8.0	0.00E+00
8.5	0.00E+00
9.0	0.00E+00
9.5	0.00E+00
10.0	0.00E+00

Note

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared

with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best described by an electron limited degradation such as oxidation by O₂, NO₃, SO₄ etc than an alternative solution should be used

Site being assessed:	Fortis Quay
Completed by:	Alex Crow
Date:	#####
Version:	1A

R&D Publication 20 Remedial Targets Worksheet, Release 3.2

Level 3 - Groundwater

See Note

Input Parameters (using pull down menu)

Contaminant	Fluoranthene	from Level 1
Target Concentration	C _T 6.30E-06	mg/l from Level 1

Select analytical solution (click on brown cell below, then on pull-down menu)

Domenico - Steady state Equations in HRA publication

Approach for simulating vertical dispersion:

Simulate vertical dispersion in 1 direction

Select nature of decay rate (click on brown cell below, then on pull-down menu)

Approach for simulating degradation of pollutants:

Apply degradation rate to pollutants in all phases (e.g. field derived value)

Initial contaminant concentration in groundwater at plume core	C ₀	1.59E-04	mg/l	Source of parameter value
Half life for degradation of contaminant in water	t _{1/2}	8.80E+02	days	Maximum observed concentration
Calculated decay rate	λ	7.87E-04	days ⁻¹	Degradation Rates: Max values.
Width of plume in aquifer at source (perpendicular to flow)	Sz	2.50E+02	m	
Plume thickness at source	Sy	3.60E+00	m	Thickness of shallowest sand and gravel
Saturated aquifer thickness	da	3.80E+00	m	Define dispersivity (click brown cell and use pull down list)
Bulk density of aquifer materials	p	2.10E+00	g/cm ³	Typical bulk density from ground investigation results
Effective porosity of aquifer	n	2.00E-01	fraction	Lower value for sand and gravel (Fetter 2001)
Hydraulic gradient	i	2.22E-02	fraction	Maximum observed hydraulic gradient on site
Hydraulic conductivity of aquifer	K	1.00E-03	m/d	Fetter (2001) upper value for well sorted s
Distance to compliance point	x	1.00E+01	m	Longitudinal dispersivity
Distance (lateral) to compliance point perpendicular to flow direction	z		m	Transverse dispersivity
Distance (depth) to compliance point perpendicular to flow direction	y		m	Vertical dispersivity
Time since pollutant entered groundwater	t	3.65E+05	days	Note values of dispersivity must be > 0
Parameters values determined from options				For calculated value, assumes ax = 0.1 * x, az = 0.01 * x, ay = 0.001 * x
Partition coefficient	Kd	6.01E+01	l/kg	Xu & Eckstein (1995) report ax = 0.83(log ₁₀ K) ^{-0.414} , az = ax/10, ay = ax/100 are assumed
Longitudinal dispersivity	αx	1.00E+00	m	
Transverse dispersivity	αz	1.00E-01	m	
Vertical dispersivity	αy	1.00E-02	m	

Dispersed plume thickness exceeds aquifer thickness! Reduce vertical dispersivity

Calculated Parameters Variable

Groundwater flow velocity	v	1.11E-04	m/d
Retardation factor	Rf	6.32E+02	fraction
Decay rate used	λ	7.87E-04	d ⁻¹
Rate of contaminant flow due to retardation	u	1.76E-07	m/d
Contaminant concentration at distance x, assuming one-way vertical dispersion	C _{ED}	6.55E-293	mg/l
Attenuation factor (one way vertical dispersion, CO/CED)	AF	2.43E+288	

Remedial Targets

Remedial Target	1.53E+283	mg/l	For comparison with measured groundwater concentration.
-----------------	-----------	------	---

Domenico - Steady state

Distance to compliance point 10 m

Concentration of contaminant at compliance point C_{ED}/C₀ 6.55E-293 mg/l Domenico - Steady state

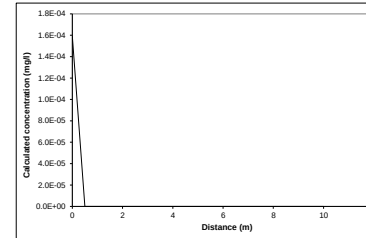
Care should be used when calculating remedial targets using the time variant options as this may result in an overestimate of the remedial target. The recommended value for time when calculating the remedial target is 9.9E+99.



Select Method for deriving Partition Co-efficient (using pull down menu)

Calculate for non-polar organic chemicals

Entry if specify partition coefficient (option)	Kd		l/kg
Soil water partition coefficient			
Entry for non-polar organic chemicals (option)	foc	3.30E-03	fraction
Fraction of organic carbon in aquifer			
Organic carbon partition coefficient	Koc	1.82E+04	l/kg
Entry for ionic organic chemicals (option)			
Sorption coefficient for related species	K _{oc,n}		l/kg
Sorption coefficient for ionised species	K _{oc,i}		l/kg
pH value	pH		
acid dissociation constant	pKa		
Fraction of organic carbon in aquifer	foc		fraction
Soil water partition coefficient	Kd	6.01E+01	l/kg



Note graph assumes plume disperses vertically in one direction only. An alternative solution assuming the centre of the plume is located at the mid-depth of the aquifer is presented in the calculation sheets.

Note

This sheet calculates the Level 3 remedial target for groundwater, based on the distance to the receptor or compliance located down hydraulic gradient of the source Three solution methods are included, the preferred option is Ogata Banks.

By setting a long travel time it will give the steady state solution, which should be used to calculate remedial targets.

The measured groundwater concentration should be compared

with the Level 3 remedial target to determine the need for further action.

Note if contaminant is not subject to first order degradation, then set half life as 9.0E+99.

This worksheet should be used if pollutant transport and degradation is best described by a first order reaction. If degradation is best described by an electron limited degradation such as oxidation by O₂, NO₃, SO₄ etc than an alternative solution should be used

Site being assessed:	Fortis Quay
Completed by:	Alex Crow
Date:	#####
Version:	1A

Calculated concentrations for distance-concentration graph

Domenico - Steady state

From calculation sheet

Distance	Concentration
	mg/l
0	1.6E-04
0.5	6.06E-19
1.0	2.31E-33
1.5	8.78E-48
2.0	3.34E-62
2.5	1.27E-76
3.0	4.85E-91
3.5	1.85E-105
4.0	7.04E-120
4.5	2.68E-134
5.0	1.02E-148
5.5	3.89E-163
6.0	1.48E-177
6.5	5.64E-192
7.0	2.15E-206
7.5	8.18E-221
8.0	3.11E-235
8.5	1.19E-249
9.0	4.52E-264
9.5	1.72E-278
10.0	6.55E-293

F. Waste Classification Report for Hazwaste Online

Waste Classification Report



XSJD9-7VKXE-U23F8

Job name

378532BA01

Description/Comments

Project

Fortis Quarry.v2

Site

Waste Stream Template

Nicky Reid MM Comprehensive Suite

Classified by

Name:
Karen Treherne
Date:
18/12/2017 23:29:36 UTC
Telephone:
0)114 228 3914

Company:
Mott MacDonald
111 St Mary's Road
Station Road
Sheffield
S2 4AP

Report

Created by: Karen Treherne
Created date: 18/12/2017 23:29 UTC

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	BH105	0.6	Non Hazardous		3
2	CP01	0.5	Non Hazardous		7
3	CP01[1]	1.5	Non Hazardous		11
4	CP02	0.5	Non Hazardous		15
5	RC01	0.5	Non Hazardous		19
6	RC01[1]	1.8	Non Hazardous		23
7	RC01[2]	2.85	Non Hazardous		27
8	RC02	0.1	Non Hazardous		29
9	RC02[1]	1	Non Hazardous		33
10	RC03	0.3	Hazardous	HP 2, HP 8	37
11	RC03[1]	0.5	Non Hazardous		41
12	RC03[2]	1	Non Hazardous		43
13	RC04	0.5	Non Hazardous		47
14	RC04[1]	1	Non Hazardous		51
15	RC05	0.3	Hazardous	HP 3(i), HP 7, HP 11	53
16	RC06	0.5	Non Hazardous		57

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
17	RC06[1]	1	Non Hazardous		61
18	RC06[2]	3.5	Non Hazardous		63
19	RC07	1.5	Non Hazardous		67
20	RC07-A	0.5	Non Hazardous		71
21	RC08	0.5	Non Hazardous		75
22	RC08[1]	1	Non Hazardous		79
23	RC08[2]	1.5	Non Hazardous		81
24	RC09	0.3	Hazardous	HP 3(i), HP 7, HP 11	85
25	RC09[1]	1.5	Non Hazardous		89
26	RC10	0.3	Non Hazardous		93
27	RC10[1]	0.5	Non Hazardous		97
28	TP01	0.3	Non Hazardous		99
29	TP02	0.2	Non Hazardous		103
30	TP03	0.5	Non Hazardous		107
31	TP04	0.5	Non Hazardous		111
32	TP06	0.2	Hazardous	HP 3(i), HP 7, HP 11, HP 14	115
33	TP08A	0.5	Non Hazardous		119
34	TP09	0.2	Non Hazardous		123
35	TP10	0.5	Non Hazardous		127
36	TP11	0.3	Hazardous	HP 3(i), HP 7, HP 11	131
37	WS01	0.5	Hazardous	HP 3(i), HP 7, HP 11	135
38	WS02	0.3	Non Hazardous		139
39	WS03	1	Non Hazardous		143
40	WS05	0.2	Non Hazardous		147
41	WS06	0.5	Non Hazardous		151

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	155
Appendix B: Rationale for selection of metal species	157
Appendix C: Version	158

Classification of sample: BH105

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

Sample details

Sample Name:	LoW Code:	
BH105	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	0.5	mg/kg		0.5	mg/kg	0.00005 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		5.4	mg/kg	1.32	7.13	mg/kg	0.000713 %		
21	barium { barium oxide }	215-127-9	1304-28-5		120	mg/kg	1.117	133.981	mg/kg	0.0134 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.11	mg/kg		0.11	mg/kg	0.000011 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		0.09	mg/kg		0.09	mg/kg	0.000009 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.06	mg/kg	2.775	2.942	mg/kg	0.000294 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1	mg/kg	13.43	13.43	mg/kg	0.00134 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.36	mg/kg	1.285	0.463	mg/kg	0.000036 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<24.9	mg/kg	1.462	<36.393	mg/kg	<0.00364 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.11	mg/kg		0.11	mg/kg	0.000011 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		21.7	mg/kg	1.126	24.432	mg/kg	0.00244 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				33400 mg/kg	1.43	47753.477 mg/kg	4.775 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	24.6 mg/kg		24.6 mg/kg	0.00246 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				24.1 mg/kg	1.579	38.066 mg/kg	0.00381 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				9 pH		9 pH	9pH			
			PH								
55	phenanthrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				0.18 mg/kg		0.18 mg/kg	0.000018 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				40 mg/kg		40 mg/kg	0.004 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				25.8 mg/kg	1.785	46.058 mg/kg	0.00461 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				112.1 mg/kg	1.245	139.532 mg/kg	0.014 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.827 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: CP01

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

Sample details

Sample Name:	LoW Code:
CP01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

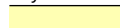
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.4	mg/kg		0.4	mg/kg	0.00004 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	5	mg/kg	1.32	6.602	mg/kg	0.00066 %		
21	barium { barium oxide }	215-127-9	1304-28-5		52.8	mg/kg	1.117	58.952	mg/kg	0.0059 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.1	mg/kg		0.1	mg/kg	0.00001 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.08	mg/kg		0.08	mg/kg	0.000008 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.467	mg/kg	2.775	1.296	mg/kg	0.00013 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.32	mg/kg	1.285	0.411	mg/kg	0.000032 %		
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<18.4	mg/kg	1.462	<26.893	mg/kg	<0.00269 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	0.09	mg/kg		0.09	mg/kg	0.000009 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	13.4	mg/kg	1.126	15.087	mg/kg	0.00151 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				23300 mg/kg	1.43	33313.055 mg/kg	3.331 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	13.7 mg/kg		13.7 mg/kg	0.00137 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				0.8 mg/kg	1.5	1.2 mg/kg	0.00012 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				13.8 mg/kg	1.579	21.797 mg/kg	0.00218 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				9.6 pH		9.6 pH	9.6 pH			
			PH								
56	phenanthrene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.13 mg/kg		0.13 mg/kg	0.000013 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				40 mg/kg		40 mg/kg	0.004 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				14.3 mg/kg	1.785	25.528 mg/kg	0.00255 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				39.4 mg/kg	1.245	49.042 mg/kg	0.0049 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.358 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: CP01[1]

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

Sample details

Sample Name:	LoW Code:
CP01[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.6	mg/kg		0.6	mg/kg	0.00006 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	6.7	mg/kg	1.32	8.846	mg/kg	0.000885 %		
21	barium { barium oxide }	215-127-9	1304-28-5		80.5	mg/kg	1.117	89.879	mg/kg	0.00899 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.25	mg/kg		0.25	mg/kg	0.000025 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.21	mg/kg		0.21	mg/kg	0.000021 %		
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.23	mg/kg		0.23	mg/kg	0.000023 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.11	mg/kg		0.11	mg/kg	0.000011 %		
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.09	mg/kg		0.09	mg/kg	0.000009 %		
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.396	mg/kg	2.775	1.099	mg/kg	0.00011 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.37	mg/kg	1.285	0.476	mg/kg	0.000037 %		
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<15.8	mg/kg	1.462	<23.093	mg/kg	<0.00231 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	0.22	mg/kg		0.22	mg/kg	0.000022 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	14.6	mg/kg	1.126	16.438	mg/kg	0.00164 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.41 mg/kg		0.41 mg/kg	0.000041 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.14 mg/kg		0.14 mg/kg	0.000014 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				14400 mg/kg	1.43	20588.326 mg/kg	2.059 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	24.2 mg/kg		24.2 mg/kg	0.00242 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.16 mg/kg	1.353	0.217 mg/kg	0.0000217 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				11.6 mg/kg	1.579	18.322 mg/kg	0.00183 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.4 pH		8.4 pH	8.4 pH			
			PH								
55	phenanthrene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				0.34 mg/kg		0.34 mg/kg	0.000034 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.8 mg/kg	2.554	2.043 mg/kg	0.000204 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				316 mg/kg		316 mg/kg	0.0316 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				20.7 mg/kg	1.785	36.953 mg/kg	0.0037 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				46.3 mg/kg	1.245	57.63 mg/kg	0.00576 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									2.119 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: CP02

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

Sample details

Sample Name:	LoW Code:
CP02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

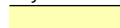
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.97	mg/kg		0.97	mg/kg	0.000097 %		
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		1.24	mg/kg		1.24	mg/kg	0.000124 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	2.4	mg/kg		2.4	mg/kg	0.00024 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		10.3	mg/kg	1.32	13.599	mg/kg	0.00136 %		
21	barium { barium oxide }	215-127-9	1304-28-5		143	mg/kg	1.117	159.66	mg/kg	0.016 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		2.38	mg/kg		2.38	mg/kg	0.000238 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		2.23	mg/kg		2.23	mg/kg	0.000223 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		2.52	mg/kg		2.52	mg/kg	0.000252 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		1.19	mg/kg		1.19	mg/kg	0.000119 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.94	mg/kg		0.94	mg/kg	0.000094 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.73	mg/kg	2.775	2.026	mg/kg	0.000203 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.37	mg/kg	1.285	0.476	mg/kg	0.000037 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<20.9	mg/kg	1.462	<30.547	mg/kg	<0.00305 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		2.38	mg/kg		2.38	mg/kg	0.000238 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		37.8	mg/kg	1.126	42.559	mg/kg	0.00426 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.3 mg/kg		0.3 mg/kg	0.00003 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				4.96 mg/kg		4.96 mg/kg	0.000496 %			
		205-912-4	206-44-0								
47	fluorene				0.75 mg/kg		0.75 mg/kg	0.000075 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				1.27 mg/kg		1.27 mg/kg	0.000127 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				30800 mg/kg	1.43	44036.141 mg/kg	4.404 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	114.3 mg/kg		114.3 mg/kg	0.0114 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.24 mg/kg	1.353	0.325 mg/kg	0.0000325 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1.4 mg/kg	1.5	2.1 mg/kg	0.00021 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				2.08 mg/kg		2.08 mg/kg	0.000208 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				19.1 mg/kg	1.579	30.168 mg/kg	0.00302 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8 pH		8 pH	8pH			
			PH								
56	phenanthrene				5.56 mg/kg		5.56 mg/kg	0.000556 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				4.72 mg/kg		4.72 mg/kg	0.000472 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6 mg/kg	2.554	1.532 mg/kg	0.000153 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				236 mg/kg		236 mg/kg	0.0236 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				22.5 mg/kg	1.785	40.167 mg/kg	0.00402 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				95.2 mg/kg	1.245	118.497 mg/kg	0.0118 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.487 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC01

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

Sample details

Sample Name:	LoW Code:	
RC01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				0.009 mg/kg		0.009 mg/kg	0.0000009 %		
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		0.11	mg/kg		0.11	mg/kg	0.000011 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	5.8	mg/kg		5.8	mg/kg	0.00058 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		22	mg/kg	1.32	29.047	mg/kg	0.0029 %		
21	barium { barium oxide }	215-127-9	1304-28-5		191	mg/kg	1.117	213.253	mg/kg	0.0213 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.33	mg/kg		0.33	mg/kg	0.000033 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		0.32	mg/kg		0.32	mg/kg	0.000032 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		0.42	mg/kg		0.42	mg/kg	0.000042 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.22	mg/kg		0.22	mg/kg	0.000022 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.16	mg/kg		0.16	mg/kg	0.000016 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.45	mg/kg	2.775	4.024	mg/kg	0.000402 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.38	mg/kg	1.285	0.488	mg/kg	0.000038 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<20.7	mg/kg	1.462	<30.254	mg/kg	<0.00303 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.38	mg/kg		0.38	mg/kg	0.000038 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		365.2	mg/kg	1.126	411.174	mg/kg	0.0411 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.59 mg/kg		0.59 mg/kg	0.000059 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.23 mg/kg		0.23 mg/kg	0.000023 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				47700 mg/kg	1.43	68198.828 mg/kg	6.82 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	423.1 mg/kg		423.1 mg/kg	0.0423 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.63 mg/kg	1.353	0.853 mg/kg	0.0000853 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				5.3 mg/kg	1.5	7.951 mg/kg	0.000795 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				34.4 mg/kg	1.579	54.335 mg/kg	0.00543 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.1 pH		8.1 pH	8.1 pH			
			PH								
56	phenanthrene				0.51 mg/kg		0.51 mg/kg	0.000051 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.55 mg/kg		0.55 mg/kg	0.000055 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1 mg/kg	2.554	2.554 mg/kg	0.000255 %			
	034-002-00-8										
60	styrene				0.001 mg/kg		0.001 mg/kg	0.0000001 %			
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				8.6 mg/kg		8.6 mg/kg	0.00086 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				37.6 mg/kg	1.785	67.123 mg/kg	0.00671 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				256.3 mg/kg	1.245	319.02 mg/kg	0.0319 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									6.979 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC01[1]

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

Sample details

Sample Name:	LoW Code:
RC01[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.8 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

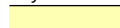
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.7	mg/kg		0.7	mg/kg	0.00007 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	7.2	mg/kg	1.32	9.506	mg/kg	0.000951 %		
21	barium { barium oxide }	215-127-9	1304-28-5		63	mg/kg	1.117	70.34	mg/kg	0.00703 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.66	mg/kg	2.775	1.832	mg/kg	0.000183 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.18	mg/kg	1.285	0.231	mg/kg	0.000018 %		
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<15.3	mg/kg	1.462	<22.362	mg/kg	<0.00224 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	27.8	mg/kg	1.126	31.3	mg/kg	0.00313 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				27100 mg/kg	1.43	38746.085 mg/kg	3.875 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	66.6 mg/kg		66.6 mg/kg	0.00666 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1 mg/kg	1.5	1.5 mg/kg	0.00015 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				14.5 mg/kg	1.579	22.903 mg/kg	0.00229 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				7.8 pH		7.8 pH	7.8 pH			
			PH								
56	phenanthrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.8 mg/kg	2.554	2.043 mg/kg	0.000204 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				40 mg/kg		40 mg/kg	0.004 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				16.2 mg/kg	1.785	28.92 mg/kg	0.00289 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				67.5 mg/kg	1.245	84.018 mg/kg	0.0084 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.914 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC01[2]

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

Sample details

Sample Name:	LoW Code:	
RC01[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.85 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb ₂ O ₄), pentoxide (Sb ₂ O ₅), trisulphide (Sb ₂ S ₃), pentasulphide (Sb ₂ S ₅) and those specified elsewhere in this Annex }	051-003-00-9		1	0.01 mg/kg		0.01 mg/kg	0.000001 %		
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		0.02 mg/kg	1.32	0.0264 mg/kg	0.00000264 %		
6	barium { barium oxide }	215-127-9	1304-28-5		0.7 mg/kg	1.117	0.782 mg/kg	0.0000782 %		
7	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
10	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
11	benzo[ghi]perylene	205-883-8	191-24-2		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
12	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	<0.001 mg/kg	1.285	<0.0012 mg/kg	<0.0000001 %		<LOD
14	chrysene	601-048-00-0	205-923-4		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
15	confirm TPH has NOT arisen from diesel or petrol				☒					

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used								
		CLP index number	EC Number	CAS Number																		
16		copper {  dicopper oxide; copper (I) oxide }				0.04	mg/kg	1.126	0.045	mg/kg	0.0000045 %											
	029-002-00-X	215-270-7	1317-39-1																			
17		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD									
	601-041-00-2	200-181-8	53-70-3																			
18		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD									
	601-023-00-4	202-849-4	100-41-4																			
19		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD									
		205-912-4	206-44-0																			
20		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD									
		201-695-5	86-73-7																			
21		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD									
		205-893-2	193-39-5																			
22		lead {  lead compounds with the exception of those specified elsewhere in this Annex }			1	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD									
	082-001-00-6																					
23		mercury {  mercury dichloride }				<0.001	mg/kg	1.353	<0.0013	mg/kg	<0.000000135 %		<LOD									
	080-010-00-X	231-299-8	7487-94-7																			
24		molybdenum {  molybdenum(VI) oxide }				<0.02	mg/kg	1.5	<0.03	mg/kg	<0.000003 %		<LOD									
	042-001-00-9	215-204-7	1313-27-5																			
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD									
	601-052-00-2	202-049-5	91-20-3																			
26		nickel {  nickel dihydroxide }				<0.01	mg/kg	1.579	<0.0158	mg/kg	<0.00000158 %		<LOD									
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]																			
27		pH				7.8	pH		7.8	pH	7.8 pH											
			PH																			
28		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD									
		201-581-5	85-01-8																			
29		pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %											
		204-927-3	129-00-0																			
30		selenium {  selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.01	mg/kg	2.554	<0.0255	mg/kg	<0.00000255 %		<LOD									
	034-002-00-8																					
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD									
	601-021-00-3	203-625-9	108-88-3																			
32		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD									
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]																			
33		zinc {  zinc oxide }													0.25	mg/kg	1.245	0.311	mg/kg	0.0000311 %		
	030-013-00-7	215-222-5	1314-13-2																			
Total:														0.00026 %								

Key

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

Classification of sample: RC02

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

Sample details

Sample Name:	LoW Code:
RC02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.016 mg/kg		0.016 mg/kg	0.0000016 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		3.87	mg/kg		3.87	mg/kg	0.000387 %		
17	acenaphthylene	205-917-1	208-96-8		0.16	mg/kg		0.16	mg/kg	0.000016 %		
18	anthracene	204-371-1	120-12-7		0.64	mg/kg		0.64	mg/kg	0.000064 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	3.2	mg/kg		3.2	mg/kg	0.00032 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
21	barium { barium oxide }	215-127-9	1304-28-5		98	mg/kg	1.117	109.418	mg/kg	0.0109 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.96	mg/kg		0.96	mg/kg	0.000096 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		0.99	mg/kg		0.99	mg/kg	0.000099 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		1.32	mg/kg		1.32	mg/kg	0.000132 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.7	mg/kg		0.7	mg/kg	0.00007 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.43	mg/kg		0.43	mg/kg	0.000043 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.486	mg/kg	2.775	1.349	mg/kg	0.000135 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.28	mg/kg	1.285	0.36	mg/kg	0.000028 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<13.1	mg/kg	1.462	<19.146	mg/kg	<0.00191 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		1.02	mg/kg		1.02	mg/kg	0.000102 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		52.2	mg/kg	1.126	58.771	mg/kg	0.00588 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				1.85 mg/kg		1.85 mg/kg	0.000185 %			
		205-912-4	206-44-0								
47	fluorene				1.66 mg/kg		1.66 mg/kg	0.000166 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.79 mg/kg		0.79 mg/kg	0.000079 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				21000 mg/kg	1.43	30024.641 mg/kg	3.002 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	84.4 mg/kg		84.4 mg/kg	0.00844 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.15 mg/kg	1.353	0.203 mg/kg	0.0000203 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1.8 mg/kg	1.5	2.7 mg/kg	0.00027 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.3 mg/kg		0.3 mg/kg	0.00003 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				15.7 mg/kg	1.579	24.798 mg/kg	0.00248 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.8 pH		8.8 pH	8.8 pH			
			PH								
56	phenanthrene				1.44 mg/kg		1.44 mg/kg	0.000144 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				1.68 mg/kg		1.68 mg/kg	0.000168 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				804 mg/kg		804 mg/kg	0.0804 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				15.4 mg/kg	1.785	27.492 mg/kg	0.00275 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				58.2 mg/kg	1.245	72.442 mg/kg	0.00724 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.128 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC02[1]

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

Sample details

Sample Name:	LoW Code:
RC02[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	1.3	mg/kg		1.3	mg/kg	0.00013 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		9.6	mg/kg	1.32	12.675	mg/kg	0.00127 %		
21	barium { barium oxide }	215-127-9	1304-28-5		76.1	mg/kg	1.117	84.966	mg/kg	0.0085 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.08	mg/kg		0.08	mg/kg	0.000008 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		0.09	mg/kg		0.09	mg/kg	0.000009 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.755	mg/kg	2.775	2.095	mg/kg	0.00021 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.9	mg/kg	13.43	12.087	mg/kg	0.00121 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.28	mg/kg	1.285	0.36	mg/kg	0.000028 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<16.6	mg/kg	1.462	<24.262	mg/kg	<0.00243 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.08	mg/kg		0.08	mg/kg	0.000008 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		43.1	mg/kg	1.126	48.526	mg/kg	0.00485 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.14 mg/kg		0.14 mg/kg	0.000014 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				29000 mg/kg	1.43	41462.6 mg/kg	4.146 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	31.3 mg/kg		31.3 mg/kg	0.00313 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.1 mg/kg	1.353	0.135 mg/kg	0.0000135 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1.4 mg/kg	1.5	2.1 mg/kg	0.00021 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				17.3 mg/kg	1.579	27.325 mg/kg	0.00273 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				7.7 pH		7.7 pH	7.7 pH			
			PH								
56	phenanthrene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.13 mg/kg		0.13 mg/kg	0.000013 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	2.554	1.277 mg/kg	0.000128 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				40 mg/kg		40 mg/kg	0.004 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				19.3 mg/kg	1.785	34.454 mg/kg	0.00345 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				92.5 mg/kg	1.245	115.136 mg/kg	0.0115 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.19 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC03

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

Sample details

Sample Name:	LoW Code:
RC03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.3 m	Entry:
	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Risk phrases hit:

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

Because of determinand:

pH: (conc.: 11.6 pH)

Hazard properties (substances considered hazardous until shown otherwise)

HP 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00003%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.003 mg/kg		0.003 mg/kg	0.0000003 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-010-00-6	203-444-5	106-93-4								
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-034-00-7	202-425-9	95-50-1								
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-012-00-7	203-458-1	107-06-2								
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-020-00-0	201-152-2	78-87-5								
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-035-00-2	203-400-5	106-46-7								
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]								
16	acenaphthene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
		201-469-6	83-32-9								
17	acenaphthylene				0.29 mg/kg		0.29 mg/kg	0.000029 %			
		205-917-1	208-96-8								
18	anthracene				0.45 mg/kg		0.45 mg/kg	0.000045 %			
		204-371-1	120-12-7								
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	1.9 mg/kg		1.9 mg/kg	0.00019 %			
		051-003-00-9									
20	arsenic { arsenic trioxide }				8.9 mg/kg	1.32	11.751 mg/kg	0.00118 %			
		033-003-00-0	215-481-4								
21	barium { barium oxide }				399 mg/kg	1.117	445.486 mg/kg	0.0445 %			
		215-127-9	1304-28-5								
22	benzene				0.004 mg/kg		0.004 mg/kg	0.0000004 %			
	601-020-00-8	200-753-7	71-43-2								
23	benzo[a]anthracene				2.36 mg/kg		2.36 mg/kg	0.000236 %			
	601-033-00-9	200-280-6	56-55-3								
24	benzo[a]pyrene; benzo[def]chrysene				2.76 mg/kg		2.76 mg/kg	0.000276 %			
	601-032-00-3	200-028-5	50-32-8								
25	benzo[b]fluoranthene				2.32 mg/kg		2.32 mg/kg	0.000232 %			
	601-034-00-4	205-911-9	205-99-2								
26	benzo[ghi]perylene				1.95 mg/kg		1.95 mg/kg	0.000195 %			
		205-883-8	191-24-2								
27	benzo[k]fluoranthene				0.71 mg/kg		0.71 mg/kg	0.000071 %			
	601-036-00-5	205-916-6	207-08-9								
28	beryllium { beryllium oxide }				0.708 mg/kg	2.775	1.965 mg/kg	0.000196 %			
	004-003-00-8	215-133-1	1304-56-9								
29	boron { boron tribromide/trichloride/trifluoride (combined) }				0.7 mg/kg	13.43	9.401 mg/kg	0.00094 %			
			10294-33-4, 10294-34-5, 7637-07-2								
30	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-060-00-9	203-623-8	108-86-1								
31	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-002-00-2	200-813-2	74-83-9								
32	cadmium { cadmium sulfide }			1	0.81 mg/kg	1.285	1.041 mg/kg	0.000081 %			
	048-010-00-4	215-147-8	1306-23-6								
33	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-033-00-1	203-628-5	108-90-7								
34	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	602-009-00-0	200-830-5	75-00-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
35	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-006-00-4	200-663-8	67-66-3								
36	chloromethane; methyl chloride				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-001-00-7	200-817-4	74-87-3								
37	chromium in chromium(III) compounds { chromium(III) oxide }				15.7 mg/kg	1.462	22.946 mg/kg	0.00229 %			
		215-160-9	1308-38-9								
38	chromium in chromium(VI) compounds { chromium(VI) oxide }				0.2 mg/kg	1.923	0.385 mg/kg	0.0000385 %			
	024-001-00-0	215-607-8	1333-82-0								
39	chrysene				2.18 mg/kg		2.18 mg/kg	0.000218 %			
	601-048-00-0	205-923-4	218-01-9								
40	confirm TPH has NOT arisen from diesel or petrol				☒						
41	copper { dicopper oxide; copper (I) oxide }				78.6 mg/kg	1.126	88.495 mg/kg	0.00885 %			
	029-002-00-X	215-270-7	1317-39-1								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.33 mg/kg		0.33 mg/kg	0.000033 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				2.68 mg/kg		2.68 mg/kg	0.000268 %			
		205-912-4	206-44-0								
47	fluorene				0.17 mg/kg		0.17 mg/kg	0.000017 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				1.48 mg/kg		1.48 mg/kg	0.000148 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				20300 mg/kg	1.43	29023.82 mg/kg	2.902 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	110.4 mg/kg		110.4 mg/kg	0.011 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.19 mg/kg	1.353	0.257 mg/kg	0.0000257 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				2.3 mg/kg	1.5	3.45 mg/kg	0.000345 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.32 mg/kg		0.32 mg/kg	0.000032 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				18.7 mg/kg	1.579	29.537 mg/kg	0.00295 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				11.6 pH		11.6 pH	11.6 pH			
			PH								
56	phenanthrene				1.58 mg/kg		1.58 mg/kg	0.000158 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				5.99 mg/kg		5.99 mg/kg	0.000599 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	2.554	1.277 mg/kg	0.000128 %			
	034-002-00-8										

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				0.009 mg/kg		0.009 mg/kg	0.0000009 %			
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				257.1 mg/kg		257.1 mg/kg	0.0257 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				27.4 mg/kg	1.785	48.914 mg/kg	0.00489 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				0.008 mg/kg		0.008 mg/kg	0.0000008 %			
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				147.6 mg/kg	1.245	183.72 mg/kg	0.0184 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.027 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC03[1]

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

Sample details

Sample Name:	LoW Code:
RC03[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		0.32 mg/kg		0.32	mg/kg	0.000032 %		
2	acenaphthylene	205-917-1	208-96-8		0.14 mg/kg		0.14	mg/kg	0.000014 %		
3	anthracene	204-371-1	120-12-7		1 mg/kg		1	mg/kg	0.0001 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	0.06 mg/kg		0.06	mg/kg	0.000006 %		
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		0.02 mg/kg	1.32	0.0264	mg/kg	0.00000264 %		
6	barium { barium oxide }	215-127-9	1304-28-5		0.8 mg/kg	1.117	0.893	mg/kg	0.0000893 %		
7	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6		2.82 mg/kg		2.82	mg/kg	0.000282 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		2.62 mg/kg		2.62	mg/kg	0.000262 %		
10	benzo[b]fluoranthene	601-034-00-4	205-911-9		4.01 mg/kg		4.01	mg/kg	0.000401 %		
11	benzo[ghi]perylene	205-883-8	191-24-2		1.76 mg/kg		1.76	mg/kg	0.000176 %		
12	benzo[k]fluoranthene	601-036-00-5	205-916-6		1.35 mg/kg		1.35	mg/kg	0.000135 %		
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	<0.001 mg/kg	1.285	<0.0012	mg/kg	<0.0000001 %		<LOD
14	chrysene	601-048-00-0	205-923-4		3.09 mg/kg		3.09	mg/kg	0.000309 %		
15	confirm TPH has NOT arisen from diesel or petrol				☑						

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value		MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number										
16		copper {  dicopper oxide; copper (I) oxide }				0.07	mg/kg	1.126	0.0788	mg/kg	0.00000788 %			
		029-002-00-X	215-270-7	1317-39-1										
17		dibenz[a,h]anthracene				0.48	mg/kg		0.48	mg/kg	0.000048 %			
		601-041-00-2	200-181-8	53-70-3										
18		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
		601-023-00-4	202-849-4	100-41-4										
19		fluoranthene				5.27	mg/kg		5.27	mg/kg	0.000527 %			
			205-912-4	206-44-0										
20		fluorene				0.26	mg/kg		0.26	mg/kg	0.000026 %			
			201-695-5	86-73-7										
21		indeno[123-cd]pyrene				2.13	mg/kg		2.13	mg/kg	0.000213 %			
			205-893-2	193-39-5										
22		lead {  lead compounds with the exception of those specified elsewhere in this Annex }			1	<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD	
		082-001-00-6												
23		mercury { mercury dichloride }				<0.001	mg/kg	1.353	<0.0013	mg/kg	<0.000000135 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7										
24		molybdenum { molybdenum(VI) oxide }				0.2	mg/kg	1.5	0.3	mg/kg	0.00003 %			
		042-001-00-9	215-204-7	1313-27-5										
25		naphthalene				0.74	mg/kg		0.74	mg/kg	0.000074 %			
		601-052-00-2	202-049-5	91-20-3										
26		nickel { nickel dihydroxide }				<0.01	mg/kg	1.579	<0.0158	mg/kg	<0.00000158 %		<LOD	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]										
27		pH				8.9	pH		8.9	pH	8.9 pH			
				PH										
28		phenanthrene				2.88	mg/kg		2.88	mg/kg	0.000288 %			
			201-581-5	85-01-8										
29		pyrene				4.88	mg/kg		4.88	mg/kg	0.000488 %			
			204-927-3	129-00-0										
30		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.01	mg/kg	2.554	0.0255	mg/kg	0.00000255 %			
		034-002-00-8												
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD	
		601-021-00-3	203-625-9	108-88-3										
32		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
33		zinc { zinc oxide }				0.16	mg/kg	1.245	0.199	mg/kg	0.0000199 %			
		030-013-00-7	215-222-5	1314-13-2										
Total:											0.00355 %			

Key

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

Classification of sample: RC03[2]

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

Sample details

Sample Name:	LoW Code:
RC03[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.001 mg/kg		0.001 mg/kg	0.0000001 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.67	mg/kg		0.67	mg/kg	0.000067 %		
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		0.74	mg/kg		0.74	mg/kg	0.000074 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	2.4	mg/kg		2.4	mg/kg	0.00024 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		19.3	mg/kg	1.32	25.482	mg/kg	0.00255 %		
21	barium { barium oxide }	215-127-9	1304-28-5		346	mg/kg	1.117	386.311	mg/kg	0.0386 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		1.67	mg/kg		1.67	mg/kg	0.000167 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		1.47	mg/kg		1.47	mg/kg	0.000147 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		1.76	mg/kg		1.76	mg/kg	0.000176 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.77	mg/kg		0.77	mg/kg	0.000077 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.6	mg/kg		0.6	mg/kg	0.00006 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		3.32	mg/kg	2.775	9.214	mg/kg	0.000921 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1.1	mg/kg	13.43	14.773	mg/kg	0.00148 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.89	mg/kg	1.285	1.144	mg/kg	0.000089 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<17.9	mg/kg	1.462	<26.162	mg/kg	<0.00262 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		1.79	mg/kg		1.79	mg/kg	0.000179 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		189	mg/kg	1.126	212.793	mg/kg	0.0213 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.21 mg/kg		0.21 mg/kg	0.000021 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				3.91 mg/kg		3.91 mg/kg	0.000391 %			
		205-912-4	206-44-0								
47	fluorene				0.51 mg/kg		0.51 mg/kg	0.000051 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.88 mg/kg		0.88 mg/kg	0.000088 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				55500 mg/kg	1.43	79350.838 mg/kg	7.935 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	66.4 mg/kg		66.4 mg/kg	0.00664 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.21 mg/kg	1.353	0.284 mg/kg	0.0000284 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				8.7 mg/kg	1.5	13.052 mg/kg	0.00131 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				1.01 mg/kg		1.01 mg/kg	0.000101 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				57.9 mg/kg	1.579	91.453 mg/kg	0.00915 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.8 pH		8.8 pH	8.8 pH			
			PH								
56	phenanthrene				3.78 mg/kg		3.78 mg/kg	0.000378 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				3.47 mg/kg		3.47 mg/kg	0.000347 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				0.9 mg/kg	2.554	2.298 mg/kg	0.00023 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				127.5 mg/kg		127.5 mg/kg	0.0127 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				51.3 mg/kg	1.785	91.58 mg/kg	0.00916 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				231 mg/kg	1.245	287.529 mg/kg	0.0288 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									8.073 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC04

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

Sample details

Sample Name:	LoW Code:
RC04	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.007 mg/kg		0.007 mg/kg	0.0000007 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		1.73	mg/kg		1.73	mg/kg	0.000173 %		
17	acenaphthylene	205-917-1	208-96-8		0.11	mg/kg		0.11	mg/kg	0.000011 %		
18	anthracene	204-371-1	120-12-7		0.35	mg/kg		0.35	mg/kg	0.000035 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	2.3	mg/kg		2.3	mg/kg	0.00023 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		75.3	mg/kg	1.32	99.421	mg/kg	0.00994 %		
21	barium { barium oxide }	215-127-9	1304-28-5		1100	mg/kg	1.117	1228.156	mg/kg	0.123 %		
22	benzene	601-020-00-8	71-43-2		0.003	mg/kg		0.003	mg/kg	0.0000003 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.59	mg/kg		0.59	mg/kg	0.000059 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		0.57	mg/kg		0.57	mg/kg	0.000057 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		0.77	mg/kg		0.77	mg/kg	0.000077 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.5	mg/kg		0.5	mg/kg	0.00005 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.23	mg/kg		0.23	mg/kg	0.000023 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.58	mg/kg	2.775	4.385	mg/kg	0.000439 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1.1	mg/kg	13.43	14.773	mg/kg	0.00148 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	1.99	mg/kg	1.285	2.558	mg/kg	0.000199 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<18.2	mg/kg	1.462	<26.6	mg/kg	<0.00266 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.57	mg/kg		0.57	mg/kg	0.000057 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		85.4	mg/kg	1.126	96.151	mg/kg	0.00962 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.67 mg/kg		0.67 mg/kg	0.000067 %			
		205-912-4	206-44-0								
47	fluorene				0.95 mg/kg		0.95 mg/kg	0.000095 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.42 mg/kg		0.42 mg/kg	0.000042 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				36300 mg/kg	1.43	51899.737 mg/kg	5.19 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	82.8 mg/kg		82.8 mg/kg	0.00828 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.13 mg/kg	1.353	0.176 mg/kg	0.0000176 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				10.3 mg/kg	1.5	15.452 mg/kg	0.00155 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.61 mg/kg		0.61 mg/kg	0.000061 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				24.6 mg/kg	1.579	38.856 mg/kg	0.00389 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
56	phenanthrene				1.71 mg/kg		1.71 mg/kg	0.000171 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.66 mg/kg		0.66 mg/kg	0.000066 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.2 mg/kg	2.554	3.064 mg/kg	0.000306 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				0.008 mg/kg		0.008 mg/kg	0.0000008 %			
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				615 mg/kg		615 mg/kg	0.0615 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				69.9 mg/kg	1.785	124.784 mg/kg	0.0125 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				0.01 mg/kg		0.01 mg/kg	0.000001 %			
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				231.7 mg/kg	1.245	288.4 mg/kg	0.0288 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									5.455 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC04[1]

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

Sample details

Sample Name:	LoW Code:
RC04[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
3	anthracene	204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb ₂ O ₄), pentoxide (Sb ₂ O ₅), trisulphide (Sb ₂ S ₃), pentasulphide (Sb ₂ S ₅) and those specified elsewhere in this Annex }	051-003-00-9		1	0.02 mg/kg		0.02 mg/kg	0.000002 %			
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		0.02 mg/kg	1.32	0.0264 mg/kg	0.00000264 %			
6	barium { barium oxide }	215-127-9	1304-28-5		1.1 mg/kg	1.117	1.228 mg/kg	0.000123 %			
7	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6		0.14 mg/kg		0.14 mg/kg	0.000014 %			
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.1 mg/kg		0.1 mg/kg	0.00001 %			
10	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.19 mg/kg		0.19 mg/kg	0.000019 %			
11	benzo[ghi]perylene	205-883-8	191-24-2		0.09 mg/kg		0.09 mg/kg	0.000009 %			
12	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	0.002 mg/kg	1.285	0.0025 mg/kg	0.0000002 %			
14	chrysene	601-048-00-0	205-923-4		0.16 mg/kg		0.16 mg/kg	0.000016 %			
15	confirm TPH has NOT arisen from diesel or petrol				☑						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				0.04 mg/kg	1.126	0.045 mg/kg	0.0000045 %			
	029-002-00-X	215-270-7	1317-39-1								
17	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	fluoranthene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
		205-912-4	206-44-0								
20	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		205-893-2	193-39-5								
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	0.01 mg/kg		0.01 mg/kg	0.000001 %			
	082-001-00-6										
23	mercury { mercury dichloride }				<0.001 mg/kg	1.353	<0.0013 mg/kg	<0.00000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	molybdenum { molybdenum(VI) oxide }				0.44 mg/kg	1.5	0.66 mg/kg	0.000066 %			
	042-001-00-9	215-204-7	1313-27-5								
25	naphthalene				0.32 mg/kg		0.32 mg/kg	0.000032 %			
	601-052-00-2	202-049-5	91-20-3								
26	nickel { nickel dihydroxide }				0.01 mg/kg	1.579	0.0158 mg/kg	0.00000158 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
27	pH				8.1 pH		8.1 pH	8.1 pH			
28	phenanthrene				0.46 mg/kg		0.46 mg/kg	0.000046 %			
		201-581-5	85-01-8								
29	pyrene				0.14 mg/kg		0.14 mg/kg	0.000014 %			
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.01 mg/kg	2.554	<0.0255 mg/kg	<0.00000255 %			<LOD
	034-002-00-8										
31	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
32	xylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	zinc { zinc oxide }				0.31 mg/kg	1.245	0.386 mg/kg	0.0000386 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.00048 %		

Key

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

Classification of sample: RC05

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

Sample details

Sample Name:	LoW Code:	
RC05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.3 m		

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.864%)

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.: 0.864%)

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.: 0.864%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,2,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
6	1,2,3-trichloropropane 602-062-00-X	202-486-1	96-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
7	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
8	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
9	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
10	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
11	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
12	1,2-dichloroethane; ethylene dichloride 602-012-00-7	203-458-1	107-06-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
13	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
14	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
16	acenaphthene 201-469-6	83-32-9			34	mg/kg		34	mg/kg	0.0034 %		
17	acenaphthylene 205-917-1	208-96-8			0.63	mg/kg		0.63	mg/kg	0.000063 %		
18	anthracene 204-371-1	120-12-7			3.96	mg/kg		3.96	mg/kg	0.000396 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex } 051-003-00-9			1	0.2	mg/kg		0.2	mg/kg	0.00002 %		
20	arsenic { arsenic trioxide } 033-003-00-0	215-481-4	1327-53-3		1.1	mg/kg	1.32	1.452	mg/kg	0.000145 %		
21	barium { barium oxide } 215-127-9	1304-28-5			31.7	mg/kg	1.117	35.393	mg/kg	0.00354 %		
22	benzene 601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.63	mg/kg		1.63	mg/kg	0.000163 %		
24	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.37	mg/kg		1.37	mg/kg	0.000137 %		
25	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.69	mg/kg		1.69	mg/kg	0.000169 %		
26	benzo[ghi]perylene 205-883-8	191-24-2			0.7	mg/kg		0.7	mg/kg	0.00007 %		
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.45	mg/kg		0.45	mg/kg	0.000045 %		
28	beryllium { beryllium oxide } 004-003-00-8	215-133-1	1304-56-9		<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
29	boron { boron tribromide/trichloride/trifluoride (combined) } 10294-33-4, 10294-34-5, 7637-07-2				<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene 602-060-00-9	203-623-8	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
31	bromomethane; methylbromide			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9								
32	cadmium { cadmium sulfide }			1	0.34 mg/kg	1.285	0.437 mg/kg		0.000034 %		
	048-010-00-4	215-147-8	1306-23-6								
33	chlorobenzene			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7								
34	chloroethane			1	<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3								
35	chloroform; trichloromethane			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3								
36	chloromethane; methyl chloride			1	<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	602-001-00-7	200-817-4	74-87-3								
37	chromium in chromium(III) compounds { chromium(III) oxide }			1	<2.9 mg/kg	1.462	<4.239 mg/kg		<0.000424 %		<LOD
		215-160-9	1308-38-9								
38	chromium in chromium(VI) compounds { chromium(VI) oxide }			1	<0.1 mg/kg	1.923	<0.192 mg/kg		<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
39	chrysene			1	1.48 mg/kg		1.48 mg/kg		0.000148 %		
	601-048-00-0	205-923-4	218-01-9								
40	confirm TPH has NOT arisen from diesel or petrol			1	☒						
41	copper { dicopper oxide; copper (I) oxide }			1	6.5 mg/kg	1.126	7.318 mg/kg		0.000732 %		
	029-002-00-X	215-270-7	1317-39-1								
42	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	<0.5 mg/kg	1.884	<0.942 mg/kg		<0.0000942 %		<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene			1	0.23 mg/kg		0.23 mg/kg		0.000023 %		
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene			1	<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene			1	5.31 mg/kg		5.31 mg/kg		0.000531 %		
		205-912-4	206-44-0								
47	fluorene			1	11.9 mg/kg		11.9 mg/kg		0.00119 %		
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene			1	0.77 mg/kg		0.77 mg/kg		0.000077 %		
		205-893-2	193-39-5								
49	iron { iron (III) oxide }			1	635 mg/kg	1.43	907.888 mg/kg		0.0908 %		
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	3.2 mg/kg		3.2 mg/kg		0.00032 %		
	082-001-00-6										
51	mercury { mercury dichloride }			1	<0.1 mg/kg	1.353	<0.135 mg/kg		<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }			1	0.7 mg/kg	1.5	1.05 mg/kg		0.000105 %		
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene			1	4.67 mg/kg		4.67 mg/kg		0.000467 %		
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }			1	3.2 mg/kg	1.579	5.054 mg/kg		0.000505 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH			1	9.1 pH		9.1 pH		9.1 pH		
			PH								
56	phenanthrene			1	12.2 mg/kg		12.2 mg/kg		0.00122 %		
		201-581-5	85-01-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				3.88 mg/kg		3.88 mg/kg	0.000388 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				8640 mg/kg		8640 mg/kg	0.864 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				5.5 mg/kg	1.785	9.819 mg/kg	0.000982 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				15.8 mg/kg	1.245	19.666 mg/kg	0.00197 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.973 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to hazardous because** The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC06

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

Sample details

Sample Name:	LoW Code:
RC06	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

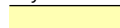
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
17	acenaphthylene	205-917-1	208-96-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
18	anthracene	204-371-1	120-12-7		3.18	mg/kg		3.18	mg/kg	0.000318 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	3.6	mg/kg		3.6	mg/kg	0.00036 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		32.9	mg/kg	1.32	43.439	mg/kg	0.00434 %		
21	barium { barium oxide }	215-127-9	1304-28-5		167	mg/kg	1.117	186.456	mg/kg	0.0186 %		
22	benzene	601-020-00-8	71-43-2		0.002	mg/kg		0.002	mg/kg	0.0000002 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		5.1	mg/kg		5.1	mg/kg	0.00051 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		4.3	mg/kg		4.3	mg/kg	0.00043 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		4.92	mg/kg		4.92	mg/kg	0.000492 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		1.9	mg/kg		1.9	mg/kg	0.00019 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		1.96	mg/kg		1.96	mg/kg	0.000196 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.28	mg/kg	2.775	3.552	mg/kg	0.000355 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.9	mg/kg	13.43	12.087	mg/kg	0.00121 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	1.03	mg/kg	1.285	1.324	mg/kg	0.000103 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<16.6	mg/kg	1.462	<24.262	mg/kg	<0.00243 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		4.52	mg/kg		4.52	mg/kg	0.000452 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		148.1	mg/kg	1.126	166.744	mg/kg	0.0167 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.56 mg/kg		0.56 mg/kg	0.000056 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				11.3 mg/kg		11.3 mg/kg	0.00113 %			
		205-912-4	206-44-0								
47	fluorene				0.38 mg/kg		0.38 mg/kg	0.000038 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				2.46 mg/kg		2.46 mg/kg	0.000246 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				43500 mg/kg	1.43	62193.9 mg/kg	6.219 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	206.3 mg/kg		206.3 mg/kg	0.0206 %			
	082-001-00-6										
51	mercury { mercury dichloride }				1.09 mg/kg	1.353	1.475 mg/kg	0.000148 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				5 mg/kg	1.5	7.501 mg/kg	0.00075 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.29 mg/kg		0.29 mg/kg	0.000029 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				32.7 mg/kg	1.579	51.65 mg/kg	0.00516 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.5 pH		8.5 pH	8.5 pH			
			PH								
56	phenanthrene				5.89 mg/kg		5.89 mg/kg	0.000589 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				9.52 mg/kg		9.52 mg/kg	0.000952 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.7 mg/kg	2.554	1.788 mg/kg	0.000179 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				247.2 mg/kg		247.2 mg/kg	0.0247 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				30.9 mg/kg	1.785	55.162 mg/kg	0.00552 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				661.8 mg/kg	1.245	823.752 mg/kg	0.0824 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									6.409 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC06[1]

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

Sample details

Sample Name:	LoW Code:	
RC06[1]	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 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		0.6 mg/kg		0.6 mg/kg	0.00006 %		
2	acenaphthylene	205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
3	anthracene	204-371-1	120-12-7		1.09 mg/kg		1.09 mg/kg	0.000109 %		
4	antimony { antimony compounds, with the exception of the tetroxide (Sb ₂ O ₄), pentoxide (Sb ₂ O ₅), trisulphide (Sb ₂ S ₃), pentasulphide (Sb ₂ S ₅) and those specified elsewhere in this Annex }	051-003-00-9		1	0.05 mg/kg		0.05 mg/kg	0.000005 %		
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		0.04 mg/kg	1.32	0.0528 mg/kg	0.00000528 %		
6	barium { barium oxide }	215-127-9	1304-28-5		0.8 mg/kg	1.117	0.893 mg/kg	0.0000893 %		
7	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6		4.64 mg/kg		4.64 mg/kg	0.000464 %		
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		5.07 mg/kg		5.07 mg/kg	0.000507 %		
10	benzo[b]fluoranthene	601-034-00-4	205-911-9		5.69 mg/kg		5.69 mg/kg	0.000569 %		
11	benzo[ghi]perylene	205-883-8	191-24-2		3.13 mg/kg		3.13 mg/kg	0.000313 %		
12	benzo[k]fluoranthene	601-036-00-5	205-916-6		2.1 mg/kg		2.1 mg/kg	0.00021 %		
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	<0.001 mg/kg	1.285	<0.0012 mg/kg	<0.0000001 %		<LOD
14	chrysene	601-048-00-0	205-923-4		4.66 mg/kg		4.66 mg/kg	0.000466 %		
15	confirm TPH has NOT arisen from diesel or petrol				☑					

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
16		copper {  dicopper oxide; copper (I) oxide }				0.18	mg/kg	1.126	0.203	mg/kg	0.0000203 %		
	029-002-00-X	215-270-7	1317-39-1										
17		dibenz[a,h]anthracene				0.76	mg/kg		0.76	mg/kg	0.000076 %		
	601-041-00-2	200-181-8	53-70-3										
18		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4										
19		fluoranthene				8.31	mg/kg		8.31	mg/kg	0.000831 %		
		205-912-4	206-44-0										
20		fluorene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		201-695-5	86-73-7										
21		indeno[123-cd]pyrene				3.46	mg/kg		3.46	mg/kg	0.000346 %		
		205-893-2	193-39-5										
22		lead {  lead compounds with the exception of those specified elsewhere in this Annex }			1	0.29	mg/kg		0.29	mg/kg	0.000029 %		
	082-001-00-6												
23		mercury { mercury dichloride }				<0.001	mg/kg	1.353	<0.0013	mg/kg	<0.000000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7										
24		molybdenum { molybdenum(VI) oxide }				0.09	mg/kg	1.5	0.135	mg/kg	0.0000135 %		
	042-001-00-9	215-204-7	1313-27-5										
25		naphthalene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
	601-052-00-2	202-049-5	91-20-3										
26		nickel { nickel dihydroxide }				0.02	mg/kg	1.579	0.0316	mg/kg	0.00000316 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]										
27		pH				8.2	pH		8.2	pH	8.2 pH		
			PH										
28		phenanthrene				4.05	mg/kg		4.05	mg/kg	0.000405 %		
		201-581-5	85-01-8										
29		pyrene				8.33	mg/kg		8.33	mg/kg	0.000833 %		
		204-927-3	129-00-0										
30		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.01	mg/kg	2.554	0.0255	mg/kg	0.00000255 %		
	034-002-00-8												
31		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3										
32		xylene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]										
33		zinc { zinc oxide }				0.34	mg/kg	1.245	0.423	mg/kg	0.0000423 %		
	030-013-00-7	215-222-5	1314-13-2										
Total:											0.0055 %		

Key

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

Classification of sample: RC06[2]

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

Sample details

Sample Name:	LoW Code:
RC06[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
3.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

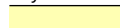
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	4	mg/kg	1.32	5.281	mg/kg	0.000528 %		
21	barium { barium oxide }	215-127-9	1304-28-5		40.9	mg/kg	1.117	45.665	mg/kg	0.00457 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.1	mg/kg		0.1	mg/kg	0.00001 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.1	mg/kg		0.1	mg/kg	0.00001 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.48	mg/kg	2.775	1.332	mg/kg	0.000133 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<18	mg/kg	1.462	<26.308	mg/kg	<0.00263 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	15	mg/kg	1.126	16.888	mg/kg	0.00169 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
		205-912-4	206-44-0								
47	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				27100 mg/kg	1.43	38746.085 mg/kg	3.875 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	7.5 mg/kg		7.5 mg/kg	0.00075 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1.3 mg/kg	1.5	1.95 mg/kg	0.000195 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				17 mg/kg	1.579	26.851 mg/kg	0.00269 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.1 pH		8.1 pH	8.1 pH			
			PH								
56	phenanthrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium selenoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				46.3 mg/kg		46.3 mg/kg	0.00463 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				13.8 mg/kg	1.785	24.636 mg/kg	0.00246 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				37.6 mg/kg	1.245	46.801 mg/kg	0.00468 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.901 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC07

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

Sample details

Sample Name:	LoW Code:
RC07	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

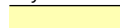
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.5	mg/kg		0.5	mg/kg	0.00005 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	5.8	mg/kg	1.32	7.658	mg/kg	0.000766 %		
21	barium { barium oxide }	215-127-9	1304-28-5		65.4	mg/kg	1.117	73.019	mg/kg	0.0073 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.1	mg/kg		0.1	mg/kg	0.00001 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.09	mg/kg		0.09	mg/kg	0.000009 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.62	mg/kg	2.775	1.721	mg/kg	0.000172 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<26.7	mg/kg	1.462	<39.024	mg/kg	<0.0039 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	0.09	mg/kg		0.09	mg/kg	0.000009 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	28	mg/kg	1.126	31.525	mg/kg	0.00315 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.14 mg/kg		0.14 mg/kg	0.000014 %			
		205-912-4	206-44-0								
47	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				42400 mg/kg	1.43	60621.181 mg/kg	6.062 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11.2 mg/kg		11.2 mg/kg	0.00112 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1.7 mg/kg	1.5	2.55 mg/kg	0.000255 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.013 mg/kg		0.013 mg/kg	0.0000013 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				21.5 mg/kg	1.579	33.959 mg/kg	0.0034 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
56	phenanthrene				0.13 mg/kg		0.13 mg/kg	0.000013 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				44.4 mg/kg		44.4 mg/kg	0.00444 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				22.6 mg/kg	1.785	40.345 mg/kg	0.00403 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				49 mg/kg	1.245	60.991 mg/kg	0.0061 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									6.098 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC07-A

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

Sample details

Sample Name:	LoW Code:
RC07-A	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		0.13	mg/kg		0.13	mg/kg	0.000013 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	2.6	mg/kg		2.6	mg/kg	0.00026 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		19	mg/kg	1.32	25.086	mg/kg	0.00251 %		
21	barium { barium oxide }	215-127-9	1304-28-5		133	mg/kg	1.117	148.495	mg/kg	0.0148 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.57	mg/kg		0.57	mg/kg	0.000057 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		0.69	mg/kg		0.69	mg/kg	0.000069 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		0.84	mg/kg		0.84	mg/kg	0.000084 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.5	mg/kg		0.5	mg/kg	0.00005 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.33	mg/kg		0.33	mg/kg	0.000033 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.37	mg/kg	2.775	3.802	mg/kg	0.00038 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.33	mg/kg	1.285	0.424	mg/kg	0.000033 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<24.2	mg/kg	1.462	<35.37	mg/kg	<0.00354 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.63	mg/kg		0.63	mg/kg	0.000063 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		174.7	mg/kg	1.126	196.693	mg/kg	0.0197 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.84 mg/kg		0.84 mg/kg	0.000084 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.56 mg/kg		0.56 mg/kg	0.000056 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				39200 mg/kg	1.43	56045.997 mg/kg	5.605 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	109.6 mg/kg		109.6 mg/kg	0.011 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.18 mg/kg	1.353	0.244 mg/kg	0.0000244 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				4.3 mg/kg	1.5	6.451 mg/kg	0.000645 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				27.5 mg/kg	1.579	43.436 mg/kg	0.00434 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
56	phenanthrene				0.61 mg/kg		0.61 mg/kg	0.000061 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				0.85 mg/kg		0.85 mg/kg	0.000085 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.9 mg/kg	2.554	2.298 mg/kg	0.00023 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				90.1 mg/kg		90.1 mg/kg	0.00901 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				30 mg/kg	1.785	53.556 mg/kg	0.00536 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				103.1 mg/kg	1.245	128.33 mg/kg	0.0128 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									5.691 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC08

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

Sample details

Sample Name:	LoW Code:
RC08	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

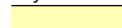
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.12	mg/kg		0.12	mg/kg	0.000012 %		
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		0.25	mg/kg		0.25	mg/kg	0.000025 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	1.5	mg/kg		1.5	mg/kg	0.00015 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		10.2	mg/kg	1.32	13.467	mg/kg	0.00135 %		
21	barium { barium oxide }	215-127-9	1304-28-5		134	mg/kg	1.117	149.612	mg/kg	0.015 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.84	mg/kg		0.84	mg/kg	0.000084 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		0.91	mg/kg		0.91	mg/kg	0.000091 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		1.14	mg/kg		1.14	mg/kg	0.000114 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.59	mg/kg		0.59	mg/kg	0.000059 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.41	mg/kg		0.41	mg/kg	0.000041 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.853	mg/kg	2.775	2.367	mg/kg	0.000237 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	8.058	mg/kg	0.000806 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.35	mg/kg	1.285	0.45	mg/kg	0.000035 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<17.4	mg/kg	1.462	<25.431	mg/kg	<0.00254 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.94	mg/kg		0.94	mg/kg	0.000094 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		43.8	mg/kg	1.126	49.314	mg/kg	0.00493 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.14 mg/kg		0.14 mg/kg	0.000014 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				1.6 mg/kg		1.6 mg/kg	0.00016 %			
		205-912-4	206-44-0								
47	fluorene				0.08 mg/kg		0.08 mg/kg	0.000008 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.62 mg/kg		0.62 mg/kg	0.000062 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				28200 mg/kg	1.43	40318.804 mg/kg	4.032 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	144.6 mg/kg		144.6 mg/kg	0.0145 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.27 mg/kg	1.353	0.365 mg/kg	0.0000365 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				1.5 mg/kg	1.5	2.25 mg/kg	0.000225 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				17.3 mg/kg	1.579	27.325 mg/kg	0.00273 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				11 pH		11 pH	11pH			
			PH								
56	phenanthrene				1.03 mg/kg		1.03 mg/kg	0.000103 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				1.55 mg/kg		1.55 mg/kg	0.000155 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5 mg/kg	2.554	1.277 mg/kg	0.000128 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				107.9 mg/kg		107.9 mg/kg	0.0108 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				23.1 mg/kg	1.785	41.238 mg/kg	0.00412 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				146 mg/kg	1.245	181.728 mg/kg	0.0182 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.109 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC08[1]

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

Sample details

Sample Name:	LoW Code:
RC08[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	acenaphthene	201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb ₂ O ₄), pentoxide (Sb ₂ O ₅), trisulphide (Sb ₂ S ₃), pentasulphide (Sb ₂ S ₅) and those specified elsewhere in this Annex }	051-003-00-9		1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		0.01 mg/kg	1.32	0.0132 mg/kg	0.00000132 %		
6	barium { barium oxide }	215-127-9	1304-28-5		0.8 mg/kg	1.117	0.893 mg/kg	0.0000893 %		
7	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
10	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
11	benzo[ghi]perylene	205-883-8	191-24-2		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
12	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	0.002 mg/kg	1.285	0.0025 mg/kg	0.0000002 %		
14	chrysene	601-048-00-0	205-923-4		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
15	confirm TPH has NOT arisen from diesel or petrol				☑					

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number								
16		copper {  dicopper oxide; copper (I) oxide }				0.14 mg/kg	1.126	0.158 mg/kg	0.0000158 %			
	029-002-00-X	215-270-7	1317-39-1									
17		dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
	601-041-00-2	200-181-8	53-70-3									
18		ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
	601-023-00-4	202-849-4	100-41-4									
19		fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
		205-912-4	206-44-0									
20		fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
		201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
		205-893-2	193-39-5									
22		lead {  lead compounds with the exception of those specified elsewhere in this Annex }			1	0.29 mg/kg		0.29 mg/kg	0.000029 %			
	082-001-00-6											
23		mercury {  mercury dichloride }				<0.001 mg/kg	1.353	<0.0013 mg/kg	<0.000000135 %		<LOD	
	080-010-00-X	231-299-8	7487-94-7									
24		molybdenum {  molybdenum(VI) oxide }				0.01 mg/kg	1.5	0.015 mg/kg	0.0000015 %			
	042-001-00-9	215-204-7	1313-27-5									
25		naphthalene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
	601-052-00-2	202-049-5	91-20-3									
26		nickel {  nickel dihydroxide }				0.02 mg/kg	1.579	0.0316 mg/kg	0.00000316 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
27		pH				9.6 pH		9.6 pH	9.6 pH			
			PH									
28		phenanthrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
		201-581-5	85-01-8									
29		pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD	
		204-927-3	129-00-0									
30		selenium {  selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.01 mg/kg	2.554	<0.0255 mg/kg	<0.00000255 %		<LOD	
	034-002-00-8											
31		toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD	
	601-021-00-3	203-625-9	108-88-3									
32		xylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
33		zinc {  zinc oxide }				0.65 mg/kg	1.245	0.809 mg/kg	0.0000809 %			
	030-013-00-7	215-222-5	1314-13-2									
Total:									0.00035 %			

Key

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

Classification of sample: RC08[2]

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

Sample details

Sample Name:	LoW Code:
RC08[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	6.7	mg/kg	1.32	8.846	mg/kg	0.000885 %		
21	barium { barium oxide }	215-127-9	1304-28-5		39.6	mg/kg	1.117	44.214	mg/kg	0.00442 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.582	mg/kg	2.775	1.615	mg/kg	0.000162 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.5	mg/kg	13.43	6.715	mg/kg	0.000672 %		
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<22.7	mg/kg	1.462	<33.177	mg/kg	<0.00332 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	19.6	mg/kg	1.126	22.067	mg/kg	0.00221 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-912-4	206-44-0								
47	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				31900 mg/kg	1.43	45608.86 mg/kg	4.561 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	15 mg/kg		15 mg/kg	0.0015 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				14.2 mg/kg	1.579	22.429 mg/kg	0.00224 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				7.1 pH		7.1 pH	7.1 pH			
			PH								
55	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
56	phenol				<0.4 mg/kg		<0.4 mg/kg	<0.00004 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.7 mg/kg	2.554	4.341 mg/kg	0.000434 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				51.8 mg/kg		51.8 mg/kg	0.00518 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				25.4 mg/kg	1.785	45.344 mg/kg	0.00453 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				41.3 mg/kg	1.245	51.407 mg/kg	0.00514 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.592 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC09

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

Sample details

Sample Name:	LoW Code:	
RC09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.3 m		

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.398%)

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.: 0.398%)

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.: 0.398%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform									
	602-013-00-2	200-756-3	71-55-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	1,1,2,2-tetrachloroethane									
	602-015-00-3	201-197-8	79-34-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3	1,1,2-trichloroethane									
	602-014-00-8	201-166-9	79-00-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	1,1-dichloroethane									
	602-011-00-1	200-863-5	75-34-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
5	1,1-dichloropropene									
	602-031-00-0	209-253-3	563-58-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
6	1,2,3-trichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4									
7	1,2,4-trichlorobenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1									
8	1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6									
9	1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8									
10	1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4									
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1									
12	1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
13	1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7									
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
16	acenaphthene				12.9	mg/kg		12.9	mg/kg	0.00129 %		
		201-469-6	83-32-9									
17	acenaphthylene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		205-917-1	208-96-8									
18	anthracene				1.53	mg/kg		1.53	mg/kg	0.000153 %		
		204-371-1	120-12-7									
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.4	mg/kg		0.4	mg/kg	0.00004 %		
		051-003-00-9										
20	arsenic { arsenic trioxide }				2.2	mg/kg	1.32	2.905	mg/kg	0.00029 %		
		033-003-00-0	215-481-4									
21	barium { barium oxide }				27.8	mg/kg	1.117	31.039	mg/kg	0.0031 %		
		215-127-9	1304-28-5									
22	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7									
23	benzo[a]anthracene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		601-033-00-9	200-280-6									
24	benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5									
25	benzo[b]fluoranthene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		601-034-00-4	205-911-9									
26	benzo[ghi]perylene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		205-883-8	191-24-2									
27	benzo[k]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-036-00-5	205-916-6									
28	beryllium { beryllium oxide }				0.127	mg/kg	2.775	0.352	mg/kg	0.0000352 %		
		004-003-00-8	215-133-1									
29	boron { boron tribromide/trichloride/trifluoride (combined) }				<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
			10294-33-4, 10294-34-5, 7637-07-2									
30	bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
31	bromomethane; methylbromide			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9								
32	cadmium { cadmium sulfide }			1	0.3 mg/kg	1.285	0.386 mg/kg		0.00003 %		
	048-010-00-4	215-147-8	1306-23-6								
33	chlorobenzene			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7								
34	chloroethane			1	<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3								
35	chloroform; trichloromethane			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3								
36	chloromethane; methyl chloride			1	<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	602-001-00-7	200-817-4	74-87-3								
37	chromium in chromium(III) compounds { chromium(III) oxide }			1	<9.5 mg/kg	1.462	<13.885 mg/kg		<0.00139 %		<LOD
		215-160-9	1308-38-9								
38	chromium in chromium(VI) compounds { chromium(VI) oxide }			1	<0.1 mg/kg	1.923	<0.192 mg/kg		<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
39	chrysene			1	0.45 mg/kg		0.45 mg/kg		0.000045 %		
	601-048-00-0	205-923-4	218-01-9								
40	confirm TPH has NOT arisen from diesel or petrol			1	☒						
41	copper { dicopper oxide; copper (I) oxide }			1	20.3 mg/kg	1.126	22.856 mg/kg		0.00229 %		
	029-002-00-X	215-270-7	1317-39-1								
42	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	<0.5 mg/kg	1.884	<0.942 mg/kg		<0.0000942 %		<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene			1	0.09 mg/kg		0.09 mg/kg		0.000009 %		
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene			1	<0.002 mg/kg		<0.002 mg/kg		<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene			1	1.84 mg/kg		1.84 mg/kg		0.000184 %		
		205-912-4	206-44-0								
47	fluorene			1	4.71 mg/kg		4.71 mg/kg		0.000471 %		
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene			1	0.24 mg/kg		0.24 mg/kg		0.000024 %		
		205-893-2	193-39-5								
49	iron { iron (III) oxide }			1	4340 mg/kg	1.43	6205.093 mg/kg		0.621 %		
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	17.9 mg/kg		17.9 mg/kg		0.00179 %		
	082-001-00-6										
51	mercury { mercury dichloride }			1	<0.1 mg/kg	1.353	<0.135 mg/kg		<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }			1	1.2 mg/kg	1.5	1.8 mg/kg		0.00018 %		
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene			1	20.2 mg/kg		20.2 mg/kg		0.00202 %		
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }			1	8.5 mg/kg	1.579	13.426 mg/kg		0.00134 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH			1	9 pH		9 pH		9pH		
			PH								
56	phenanthrene			1	5.07 mg/kg		5.07 mg/kg		0.000507 %		
		201-581-5	85-01-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				1.3 mg/kg		1.3 mg/kg	0.00013 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				3980 mg/kg		3980 mg/kg	0.398 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				7.1 mg/kg	1.785	12.675 mg/kg	0.00127 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				68.4 mg/kg	1.245	85.138 mg/kg	0.00851 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									1.045 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to hazardous because** The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC09[1]

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

Sample details

Sample Name:	LoW Code:
RC09[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		4.9	mg/kg	1.32	6.47	mg/kg	0.000647 %		
21	barium { barium oxide }	215-127-9	1304-28-5		38.1	mg/kg	1.117	42.539	mg/kg	0.00425 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.622	mg/kg	2.775	1.726	mg/kg	0.000173 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	<0.21	mg/kg	1.285	<0.27	mg/kg	<0.000021 %		<LOD
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<23.9	mg/kg	1.462	<34.931	mg/kg	<0.00349 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		<0.09	mg/kg		<0.09	mg/kg	<0.000009 %		<LOD
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		24.9	mg/kg	1.126	28.035	mg/kg	0.0028 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		205-912-4	206-44-0								
47	fluorene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				33100 mg/kg	1.43	47324.554 mg/kg	4.732 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	10.6 mg/kg		10.6 mg/kg	0.00106 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.007 mg/kg		0.007 mg/kg	0.0000007 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				23.1 mg/kg	1.579	36.486 mg/kg	0.00365 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8 pH		8 pH	8pH			
			PH								
55	phenanthrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				<0.09 mg/kg		<0.09 mg/kg	<0.000009 %			<LOD
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.4 mg/kg	2.554	3.575 mg/kg	0.000358 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				52.5 mg/kg		52.5 mg/kg	0.00525 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				20.3 mg/kg	1.785	36.239 mg/kg	0.00362 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				51.2 mg/kg	1.245	63.729 mg/kg	0.00637 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.765 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC10

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

Sample details

Sample Name:	LoW Code:	
RC10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.3 m		

Hazard properties

None identified

Determinands

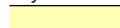
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		1.25	mg/kg		1.25	mg/kg	0.000125 %		
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		0.11	mg/kg		0.11	mg/kg	0.000011 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		0.7	mg/kg	1.32	0.924	mg/kg	0.0000924 %		
21	barium { barium oxide }	215-127-9	1304-28-5		18.6	mg/kg	1.117	20.767	mg/kg	0.00208 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		0.6	mg/kg		0.6	mg/kg	0.00006 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		0.59	mg/kg		0.59	mg/kg	0.000059 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		0.72	mg/kg		0.72	mg/kg	0.000072 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.31	mg/kg		0.31	mg/kg	0.000031 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.26	mg/kg		0.26	mg/kg	0.000026 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.11	mg/kg	2.775	0.305	mg/kg	0.0000305 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	<0.1	mg/kg	1.285	<0.129	mg/kg	<0.00001 %		<LOD
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<9.2	mg/kg	1.462	<13.446	mg/kg	<0.00134 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		0.64	mg/kg		0.64	mg/kg	0.000064 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		9.9	mg/kg	1.126	11.146	mg/kg	0.00111 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				1.28 mg/kg		1.28 mg/kg	0.000128 %			
		205-912-4	206-44-0								
47	fluorene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.34 mg/kg		0.34 mg/kg	0.000034 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				3570 mg/kg	1.43	5104.189 mg/kg	0.51 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	4.7 mg/kg		4.7 mg/kg	0.00047 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				0.9 mg/kg	1.5	1.35 mg/kg	0.000135 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				7.2 mg/kg	1.579	11.372 mg/kg	0.00114 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				7.3 pH		7.3 pH	7.3 pH			
			PH								
56	phenanthrene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				1.11 mg/kg		1.11 mg/kg	0.000111 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				520 mg/kg		520 mg/kg	0.052 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				3 mg/kg	1.785	5.356 mg/kg	0.000536 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				30.1 mg/kg	1.245	37.466 mg/kg	0.00375 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.575 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: RC10[1]

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

Sample details

Sample Name:	LoW Code:
RC10[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	acenaphthene	201-469-6	83-32-9		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
2	acenaphthylene	205-917-1	208-96-8		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
3	anthracene	204-371-1	120-12-7		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
4	antimony { antimony compounds, with the exception of the tetroxide (Sb ₂ O ₄), pentoxide (Sb ₂ O ₅), trisulphide (Sb ₂ S ₃), pentasulphide (Sb ₂ S ₅) and those specified elsewhere in this Annex }	051-003-00-9		1	0.03 mg/kg		0.03	mg/kg	0.000003 %		
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		0.04 mg/kg	1.32	0.0528	mg/kg	0.00000528 %		
6	barium { barium oxide }	215-127-9	1304-28-5		1.8 mg/kg	1.117	2.01	mg/kg	0.000201 %		
7	benzene	601-020-00-8	200-753-7		<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
8	benzo[a]anthracene	601-033-00-9	200-280-6		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
9	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
10	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
11	benzo[ghi]perylene	205-883-8	191-24-2		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
12	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1	<0.001 mg/kg	1.285	<0.0012	mg/kg	<0.0000001 %		<LOD
14	chrysene	601-048-00-0	205-923-4		<0.08 mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
15	confirm TPH has NOT arisen from diesel or petrol				☑						

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	copper { dicopper oxide; copper (I) oxide }				0.21 mg/kg	1.126	0.236 mg/kg	0.0000236 %			
	029-002-00-X	215-270-7	1317-39-1								
17	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
18	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-912-4	206-44-0								
20	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
21	indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
22	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	0.32 mg/kg		0.32 mg/kg	0.000032 %			
	082-001-00-6										
23	mercury { mercury dichloride }				<0.001 mg/kg	1.353	<0.0013 mg/kg	<0.000000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
24	molybdenum { molybdenum(VI) oxide }				0.14 mg/kg	1.5	0.21 mg/kg	0.000021 %			
	042-001-00-9	215-204-7	1313-27-5								
25	naphthalene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
26	nickel { nickel dihydroxide }				0.02 mg/kg	1.579	0.0316 mg/kg	0.00000316 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
27	pH				7.8 pH		7.8 pH	7.8 pH			
28	phenanthrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-581-5	85-01-8								
29	pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		204-927-3	129-00-0								
30	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.01 mg/kg	2.554	<0.0255 mg/kg	<0.00000255 %			<LOD
	034-002-00-8										
31	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
32	xylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
33	zinc { zinc oxide }				0.56 mg/kg	1.245	0.697 mg/kg	0.0000697 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.00049 %		

Key

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

Classification of sample: TP01

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

Sample details

Sample Name:	LoW Code:
TP01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.3 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.002 mg/kg		0.002 mg/kg	0.0000002 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
17	acenaphthylene	205-917-1	208-96-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
18	anthracene	204-371-1	120-12-7		0.47	mg/kg		0.47	mg/kg	0.000047 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	1.4	mg/kg		1.4	mg/kg	0.00014 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		6.3	mg/kg	1.32	8.318	mg/kg	0.000832 %		
21	barium { barium oxide }	215-127-9	1304-28-5		129	mg/kg	1.117	144.029	mg/kg	0.0144 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		1.26	mg/kg		1.26	mg/kg	0.000126 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		1.51	mg/kg		1.51	mg/kg	0.000151 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		1.66	mg/kg		1.66	mg/kg	0.000166 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		1.05	mg/kg		1.05	mg/kg	0.000105 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.61	mg/kg		0.61	mg/kg	0.000061 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.476	mg/kg	2.775	1.321	mg/kg	0.000132 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.48	mg/kg	1.285	0.617	mg/kg	0.000048 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<13.7	mg/kg	1.462	<20.023	mg/kg	<0.002 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		1.3	mg/kg		1.3	mg/kg	0.00013 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		28.4	mg/kg	1.126	31.975	mg/kg	0.0032 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.24 mg/kg		0.24 mg/kg	0.000024 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				0.003 mg/kg		0.003 mg/kg	0.0000003 %			
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				2.49 mg/kg		2.49 mg/kg	0.000249 %			
		205-912-4	206-44-0								
47	fluorene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				1.13 mg/kg		1.13 mg/kg	0.000113 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				10700 mg/kg	1.43	15298.27 mg/kg	1.53 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	49.2 mg/kg		49.2 mg/kg	0.00492 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.13 mg/kg	1.353	0.176 mg/kg	0.0000176 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.08 mg/kg		0.08 mg/kg	0.000008 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				12.6 mg/kg	1.579	19.902 mg/kg	0.00199 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.7 pH		8.7 pH	8.7 pH			
			PH								
55	phenanthrene				1.58 mg/kg		1.58 mg/kg	0.000158 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				2.32 mg/kg		2.32 mg/kg	0.000232 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				0.009 mg/kg		0.009 mg/kg	0.0000009 %			
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				160.7 mg/kg		160.7 mg/kg	0.0161 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				17.3 mg/kg	1.785	30.884 mg/kg	0.00309 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				77.1 mg/kg	1.245	95.967 mg/kg	0.0096 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									1.589 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP02

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

Sample details

Sample Name:	LoW Code:
TP02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.004 mg/kg		0.004 mg/kg	0.0000004 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.16	mg/kg		0.16	mg/kg	0.000016 %		
17	acenaphthylene	205-917-1	208-96-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
18	anthracene	204-371-1	120-12-7		0.4	mg/kg		0.4	mg/kg	0.00004 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	4.9	mg/kg		4.9	mg/kg	0.00049 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		19.8	mg/kg	1.32	26.142	mg/kg	0.00261 %		
21	barium { barium oxide }	215-127-9	1304-28-5		315	mg/kg	1.117	351.699	mg/kg	0.0352 %		
22	benzene	601-020-00-8	71-43-2		0.001	mg/kg		0.001	mg/kg	0.0000001 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		1.15	mg/kg		1.15	mg/kg	0.000115 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		1.13	mg/kg		1.13	mg/kg	0.000113 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		1.6	mg/kg		1.6	mg/kg	0.00016 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.73	mg/kg		0.73	mg/kg	0.000073 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.59	mg/kg		0.59	mg/kg	0.000059 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.88	mg/kg	2.775	5.218	mg/kg	0.000522 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.55	mg/kg	1.285	0.707	mg/kg	0.000055 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<18	mg/kg	1.462	<26.308	mg/kg	<0.00263 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		1.29	mg/kg		1.29	mg/kg	0.000129 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		130.7	mg/kg	1.126	147.154	mg/kg	0.0147 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.2 mg/kg		0.2 mg/kg	0.00002 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				0.006 mg/kg		0.006 mg/kg	0.0000006 %			
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				1.89 mg/kg		1.89 mg/kg	0.000189 %			
		205-912-4	206-44-0								
47	fluorene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.83 mg/kg		0.83 mg/kg	0.000083 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				40200 mg/kg	1.43	57475.742 mg/kg	5.748 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	86.9 mg/kg		86.9 mg/kg	0.00869 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.17 mg/kg	1.353	0.23 mg/kg	0.000023 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.38 mg/kg		0.38 mg/kg	0.000038 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				40.1 mg/kg	1.579	63.338 mg/kg	0.00633 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
55	phenanthrene				1.06 mg/kg		1.06 mg/kg	0.000106 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				2.01 mg/kg		2.01 mg/kg	0.000201 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				0.023 mg/kg		0.023 mg/kg	0.0000023 %			
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				224 mg/kg		224 mg/kg	0.0224 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				43.8 mg/kg	1.785	78.191 mg/kg	0.00782 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				113.3 mg/kg	1.245	141.026 mg/kg	0.0141 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									5.866 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP03

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

Sample details

Sample Name:	LoW Code:
TP03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.002 mg/kg		0.002 mg/kg	0.0000002 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		1.07	mg/kg		1.07	mg/kg	0.000107 %		
17	acenaphthylene	205-917-1	208-96-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
18	anthracene	204-371-1	120-12-7		3.16	mg/kg		3.16	mg/kg	0.000316 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	8	mg/kg		8	mg/kg	0.0008 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		28.3	mg/kg	1.32	37.365	mg/kg	0.00374 %		
21	barium { barium oxide }	215-127-9	1304-28-5		287	mg/kg	1.117	320.437	mg/kg	0.032 %		
22	benzene	601-020-00-8	71-43-2		0.002	mg/kg		0.002	mg/kg	0.0000002 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		11.9	mg/kg		11.9	mg/kg	0.00119 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		9.43	mg/kg		9.43	mg/kg	0.000943 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		12.1	mg/kg		12.1	mg/kg	0.00121 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		3.94	mg/kg		3.94	mg/kg	0.000394 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		4.19	mg/kg		4.19	mg/kg	0.000419 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		2.02	mg/kg	2.775	5.606	mg/kg	0.000561 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.55	mg/kg	1.285	0.707	mg/kg	0.000055 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<30.2	mg/kg	1.462	<44.139	mg/kg	<0.00441 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		10	mg/kg		10	mg/kg	0.001 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		138.7	mg/kg	1.126	156.161	mg/kg	0.0156 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				1.24 mg/kg		1.24 mg/kg	0.000124 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				0.002 mg/kg		0.002 mg/kg	0.0000002 %			
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				19.1 mg/kg		19.1 mg/kg	0.00191 %			
		205-912-4	206-44-0								
47	fluorene				0.93 mg/kg		0.93 mg/kg	0.000093 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				5.29 mg/kg		5.29 mg/kg	0.000529 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				67400 mg/kg	1.43	96364.802 mg/kg	9.636 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	129.1 mg/kg		129.1 mg/kg	0.0129 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.17 mg/kg	1.353	0.23 mg/kg	0.000023 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.6 mg/kg		0.6 mg/kg	0.00006 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				50.2 mg/kg	1.579	79.291 mg/kg	0.00793 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.3 pH		8.3 pH	8.3 pH			
			PH								
55	phenanthrene				8.62 mg/kg		8.62 mg/kg	0.000862 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				17.1 mg/kg		17.1 mg/kg	0.00171 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6 mg/kg	2.554	1.532 mg/kg	0.000153 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				0.012 mg/kg		0.012 mg/kg	0.0000012 %			
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				498 mg/kg		498 mg/kg	0.0498 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				71.2 mg/kg	1.785	127.105 mg/kg	0.0127 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				94.3 mg/kg	1.245	117.377 mg/kg	0.0117 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									9.801 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP04

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

Sample details

Sample Name:	LoW Code:	
TP04	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.5	mg/kg		0.5	mg/kg	0.00005 %		
17	acenaphthylene	205-917-1	208-96-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
18	anthracene	204-371-1	120-12-7		1.79	mg/kg		1.79	mg/kg	0.000179 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	9.3	mg/kg		9.3	mg/kg	0.00093 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		34	mg/kg	1.32	44.891	mg/kg	0.00449 %		
21	barium { barium oxide }	215-127-9	1304-28-5		257	mg/kg	1.117	286.942	mg/kg	0.0287 %		
22	benzene	601-020-00-8	71-43-2		0.001	mg/kg		0.001	mg/kg	0.0000001 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		4.67	mg/kg		4.67	mg/kg	0.000467 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		4.39	mg/kg		4.39	mg/kg	0.000439 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		5.49	mg/kg		5.49	mg/kg	0.000549 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		2.6	mg/kg		2.6	mg/kg	0.00026 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		1.98	mg/kg		1.98	mg/kg	0.000198 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.06	mg/kg	2.775	2.942	mg/kg	0.000294 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		2	mg/kg	13.43	26.86	mg/kg	0.00269 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.98	mg/kg	1.285	1.26	mg/kg	0.000098 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<29.6	mg/kg	1.462	<43.262	mg/kg	<0.00433 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		4.56	mg/kg		4.56	mg/kg	0.000456 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		134.3	mg/kg	1.126	151.207	mg/kg	0.0151 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.72 mg/kg		0.72 mg/kg	0.000072 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				9.49 mg/kg		9.49 mg/kg	0.000949 %			
		205-912-4	206-44-0								
47	fluorene				0.37 mg/kg		0.37 mg/kg	0.000037 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				3.12 mg/kg		3.12 mg/kg	0.000312 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				53700 mg/kg	1.43	76777.297 mg/kg	7.678 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	1110 mg/kg		1110 mg/kg	0.111 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.34 mg/kg	1.353	0.46 mg/kg	0.000046 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.25 mg/kg		0.25 mg/kg	0.000025 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				41.6 mg/kg	1.579	65.707 mg/kg	0.00657 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.2 pH		8.2 pH	8.2 pH			
			PH								
55	phenanthrene				5.28 mg/kg		5.28 mg/kg	0.000528 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				8.14 mg/kg		8.14 mg/kg	0.000814 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.5 mg/kg	2.554	3.83 mg/kg	0.000383 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				427 mg/kg		427 mg/kg	0.0427 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				42.5 mg/kg	1.785	75.87 mg/kg	0.00759 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				425.2 mg/kg	1.245	529.252 mg/kg	0.0529 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									7.961 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP06

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

Sample details

Sample Name:	LoW Code:	
TP06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.2 m		

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"

Hazard Statements hit:

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

Because of determinand:

benzene: (conc.: 2.0e-07%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.131%)

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.: 0.131%)

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.: 0.131%)

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

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.00326%)

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6									
2	1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5									
3	1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5									
4	1,1-dichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3									
5	1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6									
6	1,2,3-trichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4									
7	1,2,4-trichlorobenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1									
8	1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6									
9	1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8									
10	1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4									
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1									
12	1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
13	1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7									
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]									
		203-580-5 [2]	108-41-8 [2]									
		203-397-0 [3]	106-43-4 [3]									
		246-698-2 [4]	25168-05-2 [4]									
16	acenaphthene				2.94	mg/kg		2.94	mg/kg	0.000294 %		
		201-469-6	83-32-9									
17	acenaphthylene				1.16	mg/kg		1.16	mg/kg	0.000116 %		
		205-917-1	208-96-8									
18	anthracene				12.7	mg/kg		12.7	mg/kg	0.00127 %		
		204-371-1	120-12-7									
19	antimony { antimony compounds, with the exception of the tetroxide (Sb ₂ O ₄), pentoxide (Sb ₂ O ₅), trisulphide (Sb ₂ S ₃), pentasulphide (Sb ₂ S ₅) and those specified elsewhere in this Annex }			1	3.1	mg/kg		3.1	mg/kg	0.00031 %		
		051-003-00-9										
20	arsenic { arsenic trioxide }				17.8	mg/kg	1.32	23.502	mg/kg	0.00235 %		
		033-003-00-0	215-481-4									
21	barium { barium oxide }				175	mg/kg	1.117	195.389	mg/kg	0.0195 %		
		215-127-9	1304-28-5									
22	benzene				0.002	mg/kg		0.002	mg/kg	0.0000002 %		
		601-020-00-8	200-753-7									
23	benzo[a]anthracene				32.6	mg/kg		32.6	mg/kg	0.00326 %		
		601-033-00-9	200-280-6									
24	benzo[a]pyrene; benzo[def]chrysene				25	mg/kg		25	mg/kg	0.0025 %		
		601-032-00-3	200-028-5									
25	benzo[b]fluoranthene				30.5	mg/kg		30.5	mg/kg	0.00305 %		
		601-034-00-4	205-911-9									
26	benzo[ghi]perylene				12.7	mg/kg		12.7	mg/kg	0.00127 %		
		205-883-8	191-24-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
27	benzo[k]fluoranthene				11.3 mg/kg		11.3 mg/kg	0.00113 %			
	601-036-00-5	205-916-6	207-08-9								
28	beryllium { beryllium oxide }				1.09 mg/kg	2.775	3.025 mg/kg	0.000303 %			
	004-003-00-8	215-133-1	1304-56-9								
29	boron { boron tribromide/trichloride/trifluoride (combined) }				<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD
			10294-33-4, 10294-34-5, 7637-07-2								
30	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-060-00-9	203-623-8	108-86-1								
31	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-002-00-2	200-813-2	74-83-9								
32	cadmium { cadmium sulfide }			1	0.65 mg/kg	1.285	0.835 mg/kg	0.000065 %			
	048-010-00-4	215-147-8	1306-23-6								
33	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-033-00-1	203-628-5	108-90-7								
34	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	602-009-00-0	200-830-5	75-00-3								
35	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-006-00-4	200-663-8	67-66-3								
36	chloromethane; methyl chloride				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-001-00-7	200-817-4	74-87-3								
37	chromium in chromium(III) compounds { chromium(III) oxide }				<13.8 mg/kg	1.462	<20.169 mg/kg	<0.00202 %			<LOD
		215-160-9	1308-38-9								
38	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
39	chrysene				28 mg/kg		28 mg/kg	0.0028 %			
	601-048-00-0	205-923-4	218-01-9								
40	confirm TPH has NOT arisen from diesel or petrol				☒						
41	copper { dicopper oxide; copper (I) oxide }				97.1 mg/kg	1.126	109.324 mg/kg	0.0109 %			
	029-002-00-X	215-270-7	1317-39-1								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				4.52 mg/kg		4.52 mg/kg	0.000452 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluorene				2.96 mg/kg		2.96 mg/kg	0.000296 %			
		201-695-5	86-73-7								
47	indeno[123-cd]pyrene				16 mg/kg		16 mg/kg	0.0016 %			
		205-893-2	193-39-5								
48	iron { iron (III) oxide }				31600 mg/kg	1.43	45179.937 mg/kg	4.518 %			
		215-168-2	1309-37-1								
49	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	121.7 mg/kg		121.7 mg/kg	0.0122 %			
	082-001-00-6										
50	mercury { mercury dichloride }				0.39 mg/kg	1.353	0.528 mg/kg	0.0000528 %			
	080-010-00-X	231-299-8	7487-94-7								
51	naphthalene				0.36 mg/kg		0.36 mg/kg	0.000036 %			
	601-052-00-2	202-049-5	91-20-3								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
52	nickel { nickel dihydroxide }				30.3	mg/kg	1.579	47.859	mg/kg	0.00479 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
53	pH				8.5	pH		8.5	pH	8.5 pH		
			PH									
54	phenanthrene				33.7	mg/kg		33.7	mg/kg	0.00337 %		
		201-581-5	85-01-8									
55	phenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
56	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.554	<1.277	mg/kg	<0.000128 %		<LOD
	034-002-00-8											
57	styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5									
58	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
59	TPH (C6 to C40) petroleum group				1309	mg/kg		1309	mg/kg	0.131 %		
			TPH									
60	vanadium { divanadium pentaoxide; vanadium pentoxide }				36.8	mg/kg	1.785	65.695	mg/kg	0.00657 %		
	023-001-00-8	215-239-8	1314-62-1									
61	zinc { zinc oxide }				157.6	mg/kg	1.245	196.167	mg/kg	0.0196 %		
	030-013-00-7	215-222-5	1314-13-2									
Total:										4.75 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP08A

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

Sample details

Sample Name:	LoW Code:
TP08A	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.5 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				0.002 mg/kg		0.002 mg/kg	0.0000002 %		
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.38	mg/kg		0.38	mg/kg	0.000038 %		
17	acenaphthylene	205-917-1	208-96-8		0.13	mg/kg		0.13	mg/kg	0.000013 %		
18	anthracene	204-371-1	120-12-7		2.19	mg/kg		2.19	mg/kg	0.000219 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	2.7	mg/kg		2.7	mg/kg	0.00027 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		16.4	mg/kg	1.32	21.653	mg/kg	0.00217 %		
21	barium { barium oxide }	215-127-9	1304-28-5		116	mg/kg	1.117	129.515	mg/kg	0.013 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		1.82	mg/kg		1.82	mg/kg	0.000182 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		1.77	mg/kg		1.77	mg/kg	0.000177 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		2.44	mg/kg		2.44	mg/kg	0.000244 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		1.25	mg/kg		1.25	mg/kg	0.000125 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		2.21	mg/kg		2.21	mg/kg	0.000221 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.83	mg/kg	2.775	2.304	mg/kg	0.00023 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	8.058	mg/kg	0.000806 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.24	mg/kg	1.285	0.308	mg/kg	0.000024 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<21.1	mg/kg	1.462	<30.839	mg/kg	<0.00308 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		1.85	mg/kg		1.85	mg/kg	0.000185 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		54.5	mg/kg	1.126	61.361	mg/kg	0.00614 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.26 mg/kg		0.26 mg/kg	0.000026 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				0.003 mg/kg		0.003 mg/kg	0.0000003 %			
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				3.56 mg/kg		3.56 mg/kg	0.000356 %			
		205-912-4	206-44-0								
47	fluorene				0.3 mg/kg		0.3 mg/kg	0.00003 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				1.51 mg/kg		1.51 mg/kg	0.000151 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				45800 mg/kg	1.43	65482.313 mg/kg	6.548 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	76 mg/kg		76 mg/kg	0.0076 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.13 mg/kg	1.353	0.176 mg/kg	0.0000176 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.31 mg/kg		0.31 mg/kg	0.000031 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				22.7 mg/kg	1.579	35.855 mg/kg	0.00359 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8 pH		8 pH	8pH			
			PH								
55	phenanthrene				2.13 mg/kg		2.13 mg/kg	0.000213 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				3.34 mg/kg		3.34 mg/kg	0.000334 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				0.007 mg/kg		0.007 mg/kg	0.0000007 %			
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				209.8 mg/kg		209.8 mg/kg	0.021 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				24.7 mg/kg	1.785	44.094 mg/kg	0.00441 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				92.8 mg/kg	1.245	115.509 mg/kg	0.0116 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									6.625 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP09

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

Sample details

Sample Name:	LoW Code:
TP09	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	0.4	mg/kg		0.4	mg/kg	0.00004 %		
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	2.1	mg/kg	1.32	2.773	mg/kg	0.000277 %		
21	barium { barium oxide }	215-127-9	1304-28-5		56.1	mg/kg	1.117	62.636	mg/kg	0.00626 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.12	mg/kg		0.12	mg/kg	0.000012 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.11	mg/kg		0.11	mg/kg	0.000011 %		
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.14	mg/kg		0.14	mg/kg	0.000014 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.122	mg/kg	2.775	0.339	mg/kg	0.0000339 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		<0.5	mg/kg	13.43	<6.715	mg/kg	<0.000672 %		<LOD
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.44	mg/kg	1.285	0.566	mg/kg	0.000044 %		
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<7.9	mg/kg	1.462	<11.546	mg/kg	<0.00115 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	0.13	mg/kg		0.13	mg/kg	0.000013 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	10	mg/kg	1.126	11.259	mg/kg	0.00113 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				0.19 mg/kg		0.19 mg/kg	0.000019 %			
		205-912-4	206-44-0								
47	fluorene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				1350 mg/kg	1.43	1930.156 mg/kg	0.193 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	9.3 mg/kg		9.3 mg/kg	0.00093 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				6.4 mg/kg	1.579	10.109 mg/kg	0.00101 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				9.2 pH		9.2 pH	9.2 pH			
			PH								
55	phenanthrene				0.09 mg/kg		0.09 mg/kg	0.000009 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				0.17 mg/kg		0.17 mg/kg	0.000017 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				51.6 mg/kg		51.6 mg/kg	0.00516 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				6.8 mg/kg	1.785	12.139 mg/kg	0.00121 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				24 mg/kg	1.245	29.873 mg/kg	0.00299 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									0.214 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP10

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

Sample details

Sample Name:	LoW Code:	
TP10	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.18	mg/kg		0.18	mg/kg	0.000018 %		
17	acenaphthylene	205-917-1	208-96-8		0.14	mg/kg		0.14	mg/kg	0.000014 %		
18	anthracene	204-371-1	120-12-7		0.69	mg/kg		0.69	mg/kg	0.000069 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	2.4	mg/kg		2.4	mg/kg	0.00024 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		15.4	mg/kg	1.32	20.333	mg/kg	0.00203 %		
21	barium { barium oxide }	215-127-9	1304-28-5		258	mg/kg	1.117	288.059	mg/kg	0.0288 %		
22	benzene	601-020-00-8	71-43-2		0.001	mg/kg		0.001	mg/kg	0.0000001 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		2.42	mg/kg		2.42	mg/kg	0.000242 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		2.09	mg/kg		2.09	mg/kg	0.000209 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		2.94	mg/kg		2.94	mg/kg	0.000294 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		1.28	mg/kg		1.28	mg/kg	0.000128 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		1.04	mg/kg		1.04	mg/kg	0.000104 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.806	mg/kg	2.775	2.237	mg/kg	0.000224 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	10.744	mg/kg	0.00107 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.57	mg/kg	1.285	0.733	mg/kg	0.000057 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<26.6	mg/kg	1.462	<38.877	mg/kg	<0.00389 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		2.59	mg/kg		2.59	mg/kg	0.000259 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		59.4	mg/kg	1.126	66.878	mg/kg	0.00669 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.33 mg/kg		0.33 mg/kg	0.000033 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				5.22 mg/kg		5.22 mg/kg	0.000522 %			
		205-912-4	206-44-0								
47	fluorene				0.13 mg/kg		0.13 mg/kg	0.000013 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				1.48 mg/kg		1.48 mg/kg	0.000148 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				23000 mg/kg	1.43	32884.131 mg/kg	3.288 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	144.9 mg/kg		144.9 mg/kg	0.0145 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.22 mg/kg	1.353	0.298 mg/kg	0.0000298 %			
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.17 mg/kg		0.17 mg/kg	0.000017 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				22.8 mg/kg	1.579	36.013 mg/kg	0.0036 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.3 pH		8.3 pH	8.3 pH			
			PH								
55	phenanthrene				2.32 mg/kg		2.32 mg/kg	0.000232 %			
		201-581-5	85-01-8								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				4.22 mg/kg		4.22 mg/kg	0.000422 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6 mg/kg	2.554	1.532 mg/kg	0.000153 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				216.1 mg/kg		216.1 mg/kg	0.0216 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				25.5 mg/kg	1.785	45.522 mg/kg	0.00455 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				130.6 mg/kg	1.245	162.56 mg/kg	0.0163 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.395 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: TP11

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

Sample details

Sample Name:	LoW Code:	
TP11	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.3 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

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"

Hazard Statements hit:

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.252%)
1,2,4-trimethylbenzene: (conc.: 5.0e-07%)

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.: 0.252%)

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.: 0.252%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform 602-013-00-2	200-756-3	71-55-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	1,1,2,2-tetrachloroethane 602-015-00-3	201-197-8	79-34-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3	1,1,2-trichloroethane 602-014-00-8	201-166-9	79-00-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	1,1-dichloroethane 602-011-00-1	200-863-5	75-34-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
5	1,1-dichloropropene 602-031-00-0	209-253-3	563-58-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
6	1,2,3-trichloropropene 602-062-00-X	202-486-1	96-18-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
7	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
8	1,2,4-trimethylbenzene 601-043-00-3	202-436-9	95-63-6		0.005 mg/kg		0.005 mg/kg	0.0000005 %			
9	1,2-dibromo-3-chloropropane 602-021-00-6	202-479-3	96-12-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
10	1,2-dibromoethane 602-010-00-6	203-444-5	106-93-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
11	1,2-dichlorobenzene; o-dichlorobenzene 602-034-00-7	202-425-9	95-50-1		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
12	1,2-dichloroethane; ethylene dichloride 602-012-00-7	203-458-1	107-06-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
13	1,2-dichloropropane; propylene dichloride 602-020-00-0	201-152-2	78-87-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
14	1,4-dichlorobenzene; p-dichlorobenzene 602-035-00-2	203-400-5	106-46-7		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4] 602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
16	acenaphthene 201-469-6	83-32-9			0.27 mg/kg		0.27 mg/kg	0.000027 %			
17	acenaphthylene 205-917-1	208-96-8			0.09 mg/kg		0.09 mg/kg	0.000009 %			
18	anthracene 204-371-1	120-12-7			0.62 mg/kg		0.62 mg/kg	0.000062 %			
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex } 051-003-00-9			1	0.8 mg/kg		0.8 mg/kg	0.00008 %			
20	arsenic { arsenic trioxide } 033-003-00-0	215-481-4	1327-53-3		3.3 mg/kg	1.32	4.357 mg/kg	0.000436 %			
21	barium { barium oxide } 215-127-9	1304-28-5			55.5 mg/kg	1.117	61.966 mg/kg	0.0062 %			
22	benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
23	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.63 mg/kg		1.63 mg/kg	0.000163 %			
24	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.41 mg/kg		1.41 mg/kg	0.000141 %			
25	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.72 mg/kg		1.72 mg/kg	0.000172 %			
26	benzo[ghi]perylene 205-883-8	191-24-2			0.77 mg/kg		0.77 mg/kg	0.000077 %			
27	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.59 mg/kg		0.59 mg/kg	0.000059 %			
28	beryllium { beryllium oxide } 004-003-00-8	215-133-1	1304-56-9		0.197 mg/kg	2.775	0.547 mg/kg	0.0000547 %			
29	boron { boron tribromide/trichloride/trifluoride (combined) } 10294-33-4, 10294-34-5, 7637-07-2				<0.5 mg/kg	13.43	<6.715 mg/kg	<0.000672 %			<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
30	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-060-00-9	203-623-8	108-86-1								
31	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-002-00-2	200-813-2	74-83-9								
32	cadmium { cadmium sulfide }			1	0.21 mg/kg	1.285	0.27 mg/kg	0.000021 %			
	048-010-00-4	215-147-8	1306-23-6								
33	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-033-00-1	203-628-5	108-90-7								
34	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	602-009-00-0	200-830-5	75-00-3								
35	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-006-00-4	200-663-8	67-66-3								
36	chloromethane; methyl chloride				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-001-00-7	200-817-4	74-87-3								
37	chromium in chromium(III) compounds { chromium(III) oxide }				<8.1 mg/kg	1.462	<11.839 mg/kg	<0.00118 %			<LOD
		215-160-9	1308-38-9								
38	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.1 mg/kg	1.923	<0.192 mg/kg	<0.0000192 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
39	chrysene				1.71 mg/kg		1.71 mg/kg	0.000171 %			
	601-048-00-0	205-923-4	218-01-9								
40	confirm TPH has NOT arisen from diesel or petrol				☒						
41	copper { dicopper oxide; copper (I) oxide }				16.1 mg/kg	1.126	18.127 mg/kg	0.00181 %			
	029-002-00-X	215-270-7	1317-39-1								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.25 mg/kg		0.25 mg/kg	0.000025 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				3.1 mg/kg		3.1 mg/kg	0.00031 %			
		205-912-4	206-44-0								
47	fluorene				0.17 mg/kg		0.17 mg/kg	0.000017 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.9 mg/kg		0.9 mg/kg	0.00009 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				7990 mg/kg	1.43	11423.661 mg/kg	1.142 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	40.6 mg/kg		40.6 mg/kg	0.00406 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				9 mg/kg	1.579	14.215 mg/kg	0.00142 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8.8 pH		8.8 pH	8.8 pH			
			PH								
55	phenanthrene				1.82 mg/kg		1.82 mg/kg	0.000182 %			
		201-581-5	85-01-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
56	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				2.7 mg/kg		2.7 mg/kg	0.00027 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulposelenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				2520 mg/kg		2520 mg/kg	0.252 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				12.3 mg/kg	1.785	21.958 mg/kg	0.0022 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				34.6 mg/kg	1.245	43.067 mg/kg	0.00431 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									1.419 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to hazardous because** The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: WS01

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

Sample details

Sample Name:	LoW Code:	
WS01	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.141%)

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.: 0.141%)

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.: 0.141%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform									
	602-013-00-2	200-756-3	71-55-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	1,1,2,2-tetrachloroethane									
	602-015-00-3	201-197-8	79-34-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3	1,1,2-trichloroethane									
	602-014-00-8	201-166-9	79-00-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	1,1-dichloroethane									
	602-011-00-1	200-863-5	75-34-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
5	1,1-dichloropropene									
	602-031-00-0	209-253-3	563-58-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
6	1,2,3-trichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4									
7	1,2,4-trichlorobenzene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	602-087-00-6	204-428-0	120-82-1									
8	1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6									
9	1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8									
10	1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4									
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1									
12	1,2-dichloroethane; ethylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2									
13	1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5									
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7									
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
16	acenaphthene				1.07	mg/kg		1.07	mg/kg	0.000107 %		
		201-469-6	83-32-9									
17	acenaphthylene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		205-917-1	208-96-8									
18	anthracene				0.81	mg/kg		0.81	mg/kg	0.000081 %		
		204-371-1	120-12-7									
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	4.8	mg/kg		4.8	mg/kg	0.00048 %		
		051-003-00-9										
20	arsenic { arsenic trioxide }				31	mg/kg	1.32	40.93	mg/kg	0.00409 %		
		033-003-00-0	215-481-4									
21	barium { barium oxide }				449	mg/kg	1.117	501.311	mg/kg	0.0501 %		
		215-127-9	1304-28-5									
22	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7									
23	benzo[a]anthracene				2.66	mg/kg		2.66	mg/kg	0.000266 %		
		601-033-00-9	200-280-6									
24	benzo[a]pyrene; benzo[def]chrysene				2.67	mg/kg		2.67	mg/kg	0.000267 %		
		601-032-00-3	200-028-5									
25	benzo[b]fluoranthene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
		601-034-00-4	205-911-9									
26	benzo[ghi]perylene				1.36	mg/kg		1.36	mg/kg	0.000136 %		
		205-883-8	191-24-2									
27	benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-036-00-5	205-916-6									
28	beryllium { beryllium oxide }				2.66	mg/kg	2.775	7.382	mg/kg	0.000738 %		
		004-003-00-8	215-133-1									
29	boron { boron tribromide/trichloride/trifluoride (combined) }				0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
			10294-33-4, 10294-34-5, 7637-07-2									
30	bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
31	bromomethane; methylbromide			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9								
32	cadmium { cadmium sulfide }			1	0.78 mg/kg	1.285	1.002 mg/kg		0.000078 %		
	048-010-00-4	215-147-8	1306-23-6								
33	chlorobenzene			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7								
34	chloroethane			1	<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	602-009-00-0	200-830-5	75-00-3								
35	chloroform; trichloromethane			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3								
36	chloromethane; methyl chloride			1	<0.004 mg/kg		<0.004 mg/kg		<0.0000004 %		<LOD
	602-001-00-7	200-817-4	74-87-3								
37	chromium in chromium(III) compounds { chromium(III) oxide }			1	<19.7 mg/kg	1.462	<28.793 mg/kg		<0.00288 %		<LOD
		215-160-9	1308-38-9								
38	chromium in chromium(VI) compounds { chromium(VI) oxide }			1	<0.1 mg/kg	1.923	<0.192 mg/kg		<0.0000192 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
39	chrysene			1	2.31 mg/kg		2.31 mg/kg		0.000231 %		
	601-048-00-0	205-923-4	218-01-9								
40	confirm TPH has NOT arisen from diesel or petrol			1	☒						
41	copper { dicopper oxide; copper (I) oxide }			1	257.2 mg/kg	1.126	289.578 mg/kg		0.029 %		
	029-002-00-X	215-270-7	1317-39-1								
42	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	<0.6 mg/kg	1.884	<1.13 mg/kg		<0.000113 %		<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene			1	0.29 mg/kg		0.29 mg/kg		0.000029 %		
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane			1	<0.001 mg/kg		<0.001 mg/kg		<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene			1	<0.003 mg/kg		<0.003 mg/kg		<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene			1	4.6 mg/kg		4.6 mg/kg		0.00046 %		
		205-912-4	206-44-0								
47	fluorene			1	0.5 mg/kg		0.5 mg/kg		0.00005 %		
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene			1	1.97 mg/kg		1.97 mg/kg		0.000197 %		
		205-893-2	193-39-5								
49	iron { iron (III) oxide }			1	57100 mg/kg	1.43	81638.43 mg/kg		8.164 %		
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	188 mg/kg		188 mg/kg		0.0188 %		
	082-001-00-6										
51	mercury { mercury dichloride }			1	<0.52 mg/kg	1.353	<0.704 mg/kg		<0.0000704 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }			1	7.4 mg/kg	1.5	11.101 mg/kg		0.00111 %		
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene			1	1.54 mg/kg		1.54 mg/kg		0.000154 %		
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }			1	43.6 mg/kg	1.579	68.866 mg/kg		0.00689 %		
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH			1	8.2 pH		8.2 pH		8.2 pH		
			PH								
56	phenanthrene			1	3.64 mg/kg		3.64 mg/kg		0.000364 %		
		201-581-5	85-01-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
57	phenol				<0.4 mg/kg		<0.4 mg/kg	<0.00004 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				4.25 mg/kg		4.25 mg/kg	0.000425 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.3 mg/kg	2.554	3.32 mg/kg	0.000332 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				1409 mg/kg		1409 mg/kg	0.141 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				51.5 mg/kg	1.785	91.937 mg/kg	0.00919 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				170.2 mg/kg	1.245	211.85 mg/kg	0.0212 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									8.454 %		

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
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to hazardous because** The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: WS02

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

Sample details

Sample Name:	LoW Code:
WS02	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.3 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

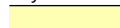
Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		1.27	mg/kg		1.27	mg/kg	0.000127 %		
17	acenaphthylene	205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
18	anthracene	204-371-1	120-12-7		3.17	mg/kg		3.17	mg/kg	0.000317 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	20.4	mg/kg		20.4	mg/kg	0.00204 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		40.3	mg/kg	1.32	53.209	mg/kg	0.00532 %		
21	barium { barium oxide }	215-127-9	1304-28-5		237	mg/kg	1.117	264.612	mg/kg	0.0265 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		5.58	mg/kg		5.58	mg/kg	0.000558 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		4.73	mg/kg		4.73	mg/kg	0.000473 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		6.05	mg/kg		6.05	mg/kg	0.000605 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		2.34	mg/kg		2.34	mg/kg	0.000234 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		1.93	mg/kg		1.93	mg/kg	0.000193 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		2.07	mg/kg	2.775	5.745	mg/kg	0.000574 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.9	mg/kg	13.43	12.087	mg/kg	0.00121 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.46	mg/kg	1.285	0.591	mg/kg	0.000046 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<22	mg/kg	1.462	<32.154	mg/kg	<0.00322 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		5.4	mg/kg		5.4	mg/kg	0.00054 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		204.6	mg/kg	1.126	230.357	mg/kg	0.023 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.64 mg/kg		0.64 mg/kg	0.000064 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				13.5 mg/kg		13.5 mg/kg	0.00135 %			
		205-912-4	206-44-0								
47	fluorene				1.32 mg/kg		1.32 mg/kg	0.000132 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				2.94 mg/kg		2.94 mg/kg	0.000294 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				93700 mg/kg	1.43	133967.091 mg/kg	13.397 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	278.5 mg/kg		278.5 mg/kg	0.0278 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.44 mg/kg	1.353	0.596 mg/kg	0.0000596 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				10 mg/kg	1.5	15.002 mg/kg	0.0015 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.6 mg/kg		0.6 mg/kg	0.00006 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				41.8 mg/kg	1.579	66.023 mg/kg	0.0066 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
56	phenanthrene				13 mg/kg		13 mg/kg	0.0013 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				11 mg/kg		11 mg/kg	0.0011 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.9 mg/kg	2.554	4.852 mg/kg	0.000485 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				502 mg/kg		502 mg/kg	0.0502 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				50.8 mg/kg	1.785	90.687 mg/kg	0.00907 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				169.6 mg/kg	1.245	211.103 mg/kg	0.0211 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									13.583 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: WS03

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

Sample details

Sample Name:	LoW Code:
WS03	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
17	acenaphthylene	205-917-1	208-96-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
18	anthracene	204-371-1	120-12-7		0.59	mg/kg		0.59	mg/kg	0.000059 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	9.2	mg/kg		9.2	mg/kg	0.00092 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		38.9	mg/kg	1.32	51.361	mg/kg	0.00514 %		
21	barium { barium oxide }	215-127-9	1304-28-5		660	mg/kg	1.117	736.894	mg/kg	0.0737 %		
22	benzene	601-020-00-8	71-43-2		0.002	mg/kg		0.002	mg/kg	0.0000002 %		
23	benzo[a]anthracene	601-033-00-9	56-55-3		1.33	mg/kg		1.33	mg/kg	0.000133 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		1.29	mg/kg		1.29	mg/kg	0.000129 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		1.84	mg/kg		1.84	mg/kg	0.000184 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.87	mg/kg		0.87	mg/kg	0.000087 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		0.65	mg/kg		0.65	mg/kg	0.000065 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		1.98	mg/kg	2.775	5.495	mg/kg	0.00055 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		1.3	mg/kg	13.43	17.459	mg/kg	0.00175 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	1.35	mg/kg	1.285	1.735	mg/kg	0.000135 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<28.4	mg/kg	1.462	<41.508	mg/kg	<0.00415 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		1.57	mg/kg		1.57	mg/kg	0.000157 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		291.1	mg/kg	1.126	327.746	mg/kg	0.0328 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.15 mg/kg		0.15 mg/kg	0.000015 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				2.98 mg/kg		2.98 mg/kg	0.000298 %			
		205-912-4	206-44-0								
47	fluorene				0.13 mg/kg		0.13 mg/kg	0.000013 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				0.94 mg/kg		0.94 mg/kg	0.000094 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				71500 mg/kg	1.43	102226.755 mg/kg	10.223 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	220.4 mg/kg		220.4 mg/kg	0.022 %			
	082-001-00-6										
51	mercury { mercury dichloride }				0.34 mg/kg	1.353	0.46 mg/kg	0.000046 %			
	080-010-00-X	231-299-8	7487-94-7								
52	molybdenum { molybdenum(VI) oxide }				6.6 mg/kg	1.5	9.901 mg/kg	0.00099 %			
	042-001-00-9	215-204-7	1313-27-5								
53	naphthalene				0.32 mg/kg		0.32 mg/kg	0.000032 %			
	601-052-00-2	202-049-5	91-20-3								
54	nickel { nickel dihydroxide }				55.6 mg/kg	1.579	87.82 mg/kg	0.00878 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
55	pH				7.8 pH		7.8 pH	7.8 pH			
			PH								
56	phenanthrene				1.88 mg/kg		1.88 mg/kg	0.000188 %			
		201-581-5	85-01-8								
57	phenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
58	pyrene				2.66 mg/kg		2.66 mg/kg	0.000266 %			
		204-927-3	129-00-0								
59	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.4 mg/kg	2.554	3.575 mg/kg	0.000358 %			
	034-002-00-8										
60	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
61	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
62	TPH (C6 to C40) petroleum group				237 mg/kg		237 mg/kg	0.0237 %			
			TPH								
63	vanadium { divanadium pentaoxide; vanadium pentoxide }				68 mg/kg	1.785	121.393 mg/kg	0.0121 %			
	023-001-00-8	215-239-8	1314-62-1								
64	xylene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
65	zinc { zinc oxide }				702.3 mg/kg	1.245	874.163 mg/kg	0.0874 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									10.499 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: **Force this Hazardous property to non hazardous because**
The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: WS05

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

Sample details

Sample Name:	LoW Code:	
WS05	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		0.7	mg/kg		0.7	mg/kg	0.00007 %		
17	acenaphthylene	205-917-1	208-96-8		0.11	mg/kg		0.11	mg/kg	0.000011 %		
18	anthracene	204-371-1	120-12-7		1	mg/kg		1	mg/kg	0.0001 %		
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }	051-003-00-9		1	3.4	mg/kg		3.4	mg/kg	0.00034 %		
20	arsenic { arsenic trioxide }	033-003-00-0	1327-53-3		15.7	mg/kg	1.32	20.729	mg/kg	0.00207 %		
21	barium { barium oxide }	215-127-9	1304-28-5		202	mg/kg	1.117	225.534	mg/kg	0.0226 %		
22	benzene	601-020-00-8	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	56-55-3		4.1	mg/kg		4.1	mg/kg	0.00041 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	50-32-8		4.4	mg/kg		4.4	mg/kg	0.00044 %		
25	benzo[b]fluoranthene	601-034-00-4	205-99-2		5.32	mg/kg		5.32	mg/kg	0.000532 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		2.8	mg/kg		2.8	mg/kg	0.00028 %		
27	benzo[k]fluoranthene	601-036-00-5	207-08-9		1.74	mg/kg		1.74	mg/kg	0.000174 %		
28	beryllium { beryllium oxide }	004-003-00-8	1304-56-9		0.93	mg/kg	2.775	2.581	mg/kg	0.000258 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.7	mg/kg	13.43	9.401	mg/kg	0.00094 %		
30	bromobenzene	602-060-00-9	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	1306-23-6	1	0.76	mg/kg	1.285	0.977	mg/kg	0.000076 %		
33	chlorobenzene	602-033-00-1	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	75-00-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	74-87-3		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<26.4	mg/kg	1.462	<38.585	mg/kg	<0.00386 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	1333-82-0		<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	218-01-9		4.01	mg/kg		4.01	mg/kg	0.000401 %		
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	1317-39-1		96.2	mg/kg	1.126	108.31	mg/kg	0.0108 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				0.54 mg/kg		0.54 mg/kg	0.000054 %			
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				8.48 mg/kg		8.48 mg/kg	0.000848 %			
		205-912-4	206-44-0								
47	fluorene				0.48 mg/kg		0.48 mg/kg	0.000048 %			
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				3.01 mg/kg		3.01 mg/kg	0.000301 %			
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				27200 mg/kg	1.43	38889.059 mg/kg	3.889 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	168.3 mg/kg		168.3 mg/kg	0.0168 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.54 mg/kg	1.353	<0.731 mg/kg	<0.0000731 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				0.3 mg/kg		0.3 mg/kg	0.00003 %			
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				23.3 mg/kg	1.579	36.802 mg/kg	0.00368 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				8 pH		8 pH	8pH			
			PH								
55	phenanthrene				5.4 mg/kg		5.4 mg/kg	0.00054 %			
		201-581-5	85-01-8								
56	phenol				<0.4 mg/kg		<0.4 mg/kg	<0.00004 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				7.63 mg/kg		7.63 mg/kg	0.000763 %			
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5 mg/kg	2.554	<1.277 mg/kg	<0.000128 %			<LOD
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				352.2 mg/kg		352.2 mg/kg	0.0352 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				26.4 mg/kg	1.785	47.129 mg/kg	0.00471 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				188.3 mg/kg	1.245	234.38 mg/kg	0.0234 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									4.019 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Classification of sample: WS06

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

Sample details

Sample Name:	LoW Code:	
WS06	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
2	1,1,1,2-tetrachloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
3	1,1,2-trichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
4	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
5	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
6	1,2,3-trichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
7	1,2,4-trichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
8	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
9	1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
10	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
11	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
12	1,2-dichloroethane; ethylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
13	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
14	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
15	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-040-00-X	202-424-3 [1]	95-49-8 [1]							
		203-580-5 [2]	108-41-8 [2]							
		203-397-0 [3]	106-43-4 [3]							
		246-698-2 [4]	25168-05-2 [4]							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
16	acenaphthene	201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17	acenaphthylene	205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18	anthracene	204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19	antimony { antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex }			1	0.3	mg/kg		0.3	mg/kg	0.00003 %		
	051-003-00-9											
20	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	6.6	mg/kg	1.32	8.714	mg/kg	0.000871 %		
21	barium { barium oxide }	215-127-9	1304-28-5		76.2	mg/kg	1.117	85.078	mg/kg	0.00851 %		
22	benzene	601-020-00-8	200-753-7	71-43-2	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26	benzo[ghi]perylene	205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	0.605	mg/kg	2.775	1.679	mg/kg	0.000168 %		
29	boron { boron tribromide/trichloride/trifluoride (combined) }		10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	8.058	mg/kg	0.000806 %		
30	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
31	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
32	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	0.21	mg/kg	1.285	0.27	mg/kg	0.000021 %		
33	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
34	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
37	chromium in chromium(III) compounds { chromium(III) oxide }	215-160-9	1308-38-9		<15.3	mg/kg	1.462	<22.362	mg/kg	<0.00224 %		<LOD
38	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	<0.1	mg/kg	1.923	<0.192	mg/kg	<0.0000192 %		<LOD
39	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
40	confirm TPH has NOT arisen from diesel or petrol				☒							
41	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	21.8	mg/kg	1.126	24.544	mg/kg	0.00245 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
42	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6 mg/kg	1.884	<1.13 mg/kg	<0.000113 %			<LOD
	006-007-00-5										
43	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
44	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
45	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
46	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-912-4	206-44-0								
47	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
48	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
49	iron { iron (III) oxide }				25200 mg/kg	1.43	36029.57 mg/kg	3.603 %			
		215-168-2	1309-37-1								
50	lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	29.8 mg/kg		29.8 mg/kg	0.00298 %			
	082-001-00-6										
51	mercury { mercury dichloride }				<0.51 mg/kg	1.353	<0.69 mg/kg	<0.000069 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
52	naphthalene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
53	nickel { nickel dihydroxide }				13.1 mg/kg	1.579	20.691 mg/kg	0.00207 %			
	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]								
54	pH				7.5 pH		7.5 pH	7.5 pH			
			PH								
55	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
56	phenol				<0.4 mg/kg		<0.4 mg/kg	<0.00004 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
57	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-927-3	129-00-0								
58	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				2.3 mg/kg	2.554	5.873 mg/kg	0.000587 %			
	034-002-00-8										
59	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-026-00-0	202-851-5	100-42-5								
60	toluene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
61	TPH (C6 to C40) petroleum group				48.3 mg/kg		48.3 mg/kg	0.00483 %			
			TPH								
62	vanadium { divanadium pentaoxide; vanadium pentoxide }				19 mg/kg	1.785	33.919 mg/kg	0.00339 %			
	023-001-00-8	215-239-8	1314-62-1								
63	zinc { zinc oxide }				39.3 mg/kg	1.245	48.917 mg/kg	0.00489 %			
	030-013-00-7	215-222-5	1314-13-2								
Total:									3.637 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because The TPH limit for potentially hazardous soils was raised to 1000mg/kg to account for carcinogenic properties of TPH rather than flammability. It was considered that the contaminant exists as a soil hydrocarbon mixture at low concentrations that will not be flammable under natural conditions.

Appendix A: Classifier defined and non CLP determinands

■ **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: 17/07/2015

Risk Phrases: N R51/53 , N R50/53 , R38 , R37 , R36

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

■ **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: 17/07/2015

Risk Phrases: R38 , R37 , R36 , R27 , R26 , R22

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

■ **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: 17/07/2015

Risk Phrases: N R50/53 , R43 , R38 , R37 , R36

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

■ **barium oxide** (EC Number: 215-127-9, CAS Number: 1304-28-5)

Conversion factor: 1.117

Description/Comments: Data from C&L Inventory Database; No entries in Registered Substances Database, IARC or Pesticide Properties Database

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=88825&HarmOnly=no?fc=true&lang=en>

Data source date: 02/06/2014

Risk Phrases: R36/37/38 , R35 , R25 , R22 , R20

Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Corr. 1A H314 , Acute Tox. 3 H301 , Acute Tox. 4 H302 , Acute Tox. 4 H332

■ **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: 23/07/2015

Risk Phrases: N R50/53

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

■ **boron tribromide/trichloride/trifluoride (combined)** (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Conversion factor: 13.43

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride

Data source: N/A

Data source date: 06/08/2015

Risk Phrases: C R35 , C R34 , T+ R26/28 , R14

Hazard Statements: Skin Corr. 1B H314 , Skin Corr. 1A H314 , Acute Tox. 2 H300 , Acute Tox. 2 H330 , EUH014

■ **chlorobenzene** (EC Number: 203-628-5, CAS Number: 108-90-7)

CLP index number: 602-033-00-1

Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)

Additional Risk Phrases: N R51/53

Additional Hazard Statement(s): None.

Reason for additional Hazards Statement(s)/Risk Phrase(s):

10/10/2016 - N R51/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

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

Conversion factor: 1.462

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: 17/07/2015

Risk Phrases: R61 , R60 , R50/53 , R43 , R42 , R38 , R37 , R36 , R22 , R20

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

■ **confirm TPH has NOT arisen from diesel or petrol**

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)

Data source: WM3 1st Edition 2015

Data source date: 25/05/2015

Risk Phrases: None.

Hazard Statements: None.

■ **dicopper oxide; copper (I) oxide** (EC Number: 215-270-7, CAS Number: 1317-39-1)

CLP index number: 029-002-00-X

Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)

Additional Risk Phrases: N R50/53 >= 0.25 % , N R50/53

Additional Hazard Statement(s): None.

Reason for additional Hazards Statement(s)/Risk Phrase(s):

10/10/2016 - N R50/53 >= 0.25 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

10/10/2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

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

CLP index number: 006-007-00-5

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

Additional Risk Phrases: None.

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

Reason for additional Hazards Statement(s)/Risk Phrase(s):

14/12/2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

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

CLP index number: 601-023-00-4

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

Additional Risk Phrases: None.

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s)/Risk Phrase(s):

03/06/2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **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: 21/08/2015

Risk Phrases: N R50/53 , Xn R22

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

■ **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: 06/08/2015

Risk Phrases: N R50/53

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

■ **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: 06/08/2015

Risk Phrases: R40

Hazard Statements: Carc. 2 H351

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

Conversion factor: 1.43

Description/Comments:

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

Data source date: 21/05/2015

Risk Phrases: R36/37/38

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

• **lead compounds with the exception of those specified elsewhere in this Annex**

CLP index number: 082-001-00-6

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

Additional Risk Phrases: None.

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s)/Risk Phrase(s):

03/06/2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium

www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

• **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25/05/2015

Risk Phrases: None.

Hazard Statements: None.

• **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: 06/08/2015

Risk Phrases: N R50/53 , R43 , R40 , R38 , R37 , R36 , R22

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

• **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: 21/08/2015

Risk Phrases: N R50/53 , Xi R36/37/38

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

• **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: 25/05/2015

Risk Phrases: R65 , R63 , R51/53 , R46 , R45 , R10

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

Appendix B: Rationale for selection of metal species

antimony {antimony compounds, with the exception of the tetroxide (Sb2O4), pentoxide (Sb2O5), trisulphide (Sb2S3), pentasulphide (Sb2S5) and those specified elsewhere in this Annex}

Worst case species based on hazard statements

arsenic {arsenic trioxide}

Worst case species based on hazard statements

barium {barium oxide}

No Chromium VI

beryllium {beryllium oxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

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

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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}

Worst case species

iron {iron (III) oxide}

No source of Iron Oxide Powder

lead {lead compounds with the exception of those specified elsewhere in this Annex}

No Chromium VI

mercury {mercury dichloride}

Worst case species based on hazard statements

molybdenum {molybdenum(VI) oxide}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species

zinc {zinc oxide}

No Chromium VI

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition, May 2015**

HazWasteOnline Classification Engine Version: 2017.349.3471.7048 (16 Dec 2017)

HazWasteOnline Database: 2017.349.3471.7048 (16 Dec 2017)

This classification utilises the following guidance and legislation:

WM3 - Waste Classification - May 2015

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 Wastes 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

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

G. Disclaimer

This disclaimer should be read in accordance with the technical limitations detailed in Section 1.4.

This report has been prepared solely for use by the party which commissioned it (the “client”) in connection with the captioned project. It should not be used for any other purpose. No person other than the client may rely on the content, information or any views expressed in this report. We accept no duty of care, responsibility or liability to any other recipient of this report. This report is confidential and contains proprietary intellectual property.

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This report represents the technical findings and opinions of experienced geoenvironmental specialists and does not constitute legal, insurance or financial advice, for which separate, independent advice should be consulted from qualified professionals if so required.

The findings and opinions of this report are based on information obtained from a variety of sources as detailed in this report. We cannot and do not guarantee the authenticity or reliability of the information from other sources upon which we have relied. To the extent that this document is based on information supplied by other parties, We accept no liability for any loss or damage suffered by the client due to an error or omission in this report which is (i) due to an error or omission data, information or statements supplied to us by other parties including the client (“Data”) or (ii) which arises from any conclusions based on such Data. We have not independently verified such Data and have assumed it to be accurate, complete, reliable and current as of the date of such information.

To the extent that this report is based on information obtained from a ground investigation, any such investigation can examine only a small part of the subsurface conditions. Where we have been responsible for the design of a ground investigation, we shall have used reasonable skill and care. However, in any ground investigation there remains a risk that pockets or “hot-spots” of contamination may not be identified, because investigations are necessarily based on sampling at localised points. Not finding any indicators of contamination does not mean that hazardous substances do not exist at the site.

Certain indicators or evidence of hazardous substances or conditions may have been outside the limited portion of the subsurface investigated or monitored and thus may not have been identified or their full significance appreciated. Such risks may be mitigated to a degree by carrying out further ground investigation, or during construction works, by on-site visual observation and validation testing.

It is also possible that environmental monitoring has not identified certain conditions because of the relatively short monitoring period. Accordingly it is possible that the ground investigation and monitoring failed to indicate the presence or significance of hazardous substances or conditions. If so, their presence could not have been considered in the formulation of our findings and opinions.

For the avoidance of doubt, where the words “remediation” or “remedial action” are used in this report, these words and phrases shall refer to actions to reduce or control risks from relevant pollutant linkages associated with the site. Unless explicitly stated, remediation shall NOT be assumed to refer to actions to eliminate contamination risks.

This report has been produced using due skill and care, in accordance with statute and best practice at the reporting date stated in the report. We accept no liability for any change in geoenvironmental risk interpretation resulting from changes in guidance and/or statute after the reporting date.

We believe that providing information about limitations is essential to help the client identify and thereby manage its risks. These risks can be mitigated – but they cannot be eliminated -through additional research. We will, on request, advise the client of the additional research opportunities available, their impact on risk, and their cost.

