



PHASE II GEO-ENVIRONMENTAL SITE ASSESSMENT

Land at Whitburn Lodge,
Mill Lane,
Whitburn,
Sunderland

Prepared for:

LOVELL

Report Ref: 23-1752-r01
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EXECUTIVE SUMMARY

Site Address	Land at Whitburn Lodge, Mill Lane, Whitburn.	
Grid Reference	E440717 N563522.	
Site Area	1.04 Hectares.	
Current Site Use/Description	The subject site forms an irregular shaped parcel of vacant land located to the East of Mill Lane in northern Whitburn. The site comprises a derelict fire-damaged Public House, Whitburn Lodge and an electricity substation, with associated parking to the north and landscaping to the south. The eastern site area comprises fields in use for grazing, with allotments adjacent in the south-eastern site area.	
Proposed Development	ERGO understands that Lovell intend to develop the subject site for a low rise residential end use. The proposed development is understood to comprise 32no. detached, semi-detached and terraced properties with associated estate roads, private gardens and utility infrastructure.	
Environmental Setting	<i>Drift Geology</i>	Pelaw Clay (Clay) is recorded in the eastern site area with Glaciofluvial deposits (Sand & Gravel) and Glacial Till present in the west.
	<i>Bedrock Geology</i>	Roker Formation – Limestone. BGS records in the vicinity identified (suspected) Limestone bedrock at depths of 1.80-3.25mbgl.
	<i>Hydrogeology</i>	Unproductive (east) and Secondary A (west) aquifer strata overlying a Principal Aquifer (Bedrock Geology).
	<i>Hydrology</i>	No surface water receptors are recorded within 250m of the site.
	<i>Flood Risk</i>	The site is located in a Flood Zone 1 with low risk identified from surface water and groundwater flooding.
	<i>Subsidence Hazard</i>	No significant hazard identified onsite in data searches. A moderate risk of compressible ground is noted adjacent to the north east of the site.
Site History	A review of available historical mapping records indicated the site was occupied by Hope House and fields until 1895, when Whitburn Colliery was developed. A number of buildings and railway sidings were noted to be present within the site associated with the colliery, until closure in 1968 and subsequent demolition. The site was renamed Whitburn Lodge by 1988 and underwent a change of use to a public house with various extensions recorded to date. It is understood the premises closed in 2012 and is presently in a poor state of repair following a fire in early 2023.	
Utility Locations	A formal utility survey has not been completed, however an electricity substation was present in the west of the site and several manholes were noted onsite and adjacent to the site. A review of statutory service plans provided has identified the presence of NPG, NWL and NGN utility infrastructure.	
Landfill Sites & Ground Gases	There are no landfills recorded within the site boundary. The nearest recorded landfill is 301m NW operated by O'Brien Aggregate at Marsden Quarry which is noted to be active and accepting inert waste.	
Radon	Unaffected no special precautions required.	
Coal Mining	A low risk of subsidence related to historic coal mining was previously determined at the site. No further assessment was considered to be required.	

ERGO Intrusive Ground Investigation

Site Investigation Works	ERGO has completed a Supplementary Intrusive Ground Investigation comprising mechanically excavated trial pits with insitu and laboratory testing and ground gas monitoring.
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Ground Conditions	Made Ground Made Ground deposits were encountered within all advanced exploratory probeholes to a maximum proven depth of 1.70mbgl. Made Ground generally comprised surficial tarmac and concrete hardstanding overlying black sandy gravels with timber, metal and clinker inclusions with localised reddish brown/black occasionally clayey gravelly sands and light yellowish brown very gravelly sands noted. Buried brick and concrete features were noted within several of the advanced exploratory trial pits considered to represent relict foundations/floor slabs of formerly present onsite structures. Drift Drift deposits were encountered within the majority of advanced exploratory probeholes comprising firm brown sandy gravelly occasionally silty CLAYs overlying brown clayey gravelly sands. Solid Bedrock was not encountered within this phase of intrusive site investigation. Previous investigation works at the site proved solid rockhead at depths of 2.80-3.10mbgl. comprising weathered dolomitic Limestone. Groundwater Limited groundwater has been encountered at the site within intrusive ground investigations and subsequent groundwater monitoring works.
Human Health	Investigation of the site has determined the presence of Heavy Metal, Non-volatile and volatile PAH contamination and Asbestos contamination. Heavy metal and non-volatile contaminants were noted in locations across the site and are considered to be manageable through the incorporation of a suitable clean cover system within areas of proposed landscaping. Volatile Naphthalene was identified within 1no. sample (TP204 0.40m) and is considered to represent a hotspot of contamination. Delineation is recommended to confirm the extent and required management of impacted soils as part of any subsequent redevelopment. Amosite and Chrysotile asbestos fibres and fibrous debris have been encountered at the site with quantification recording concentrations of <0.001-0.015%v/v. It is considered that delineation of identified impacted soils should be undertaken to confirm the extent and management requirements of these soils. Furthermore, evidence of suspected ACM tiling was noted and it is considered likely that further ACM will be present within the fabric of the existing onsite structure. A pre-demolition asbestos survey is recommended to be undertaken to confirm risks and required management. Further post demolition investigation is required to confirm potential risks and liabilities within areas where access was not previously possible.
Controlled Waters	Low risk to controlled waters.
Ground Gas	Characteristic Situation 1 / Green.
Geotechnical Assessment	
Underground Obstructions & Anomalies	Excavations were generally stable though localised instability was noted within TP208. Brick and concrete cobbles and buried features were encountered within TP201-TP204 and meant excavation was slow and in some places Made Ground could not be fully penetrated.
Foundation Options	It is understood that Lovell are proposing to utilise a Vibro Stone Column (VSC) foundation solution for plots at the site. It is recommended that a specialist contractor is approached to confirm the viability of this method.

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Foundation Options (Continued)	Adequate consideration of encountered buried obstructions and features and utility infrastructure should be undertaken which may limit the viability of VSC foundations. Further investigation of the ground conditions within the footprint of existing onsite structures and other areas inaccessible at the time of the current investigation is recommended to be undertaken to confirm ground conditions within these areas.
Building Floor Slabs	It is considered that for the majority of substructures would have in-excess of 600mm of infill and as such a suspended floor slab will be required.
Heave Precautions	The underlying clay is of medium volume change potential, appropriate heave precautions will be required to be incorporated in to design proposals.
Soakaway Drainage	Soakaway tests previously completed in the eastern site area noted variable soakage potential. Cohesive deposits recorded limited infiltration whilst granular deposits showed low-moderate infiltration. However, significant volumes of low permeability clay are identified across the site therefore soakaway drainage may be limited in spatial extent. Given the recorded minewater pumping works in the vicinity of the site, it is recommended that the Coal Authority are consulted to confirm the proposed drainage system would not pose an unacceptable level of risk to the system.
Sulphate Assessment	Samples of Made Ground and natural drift deposits across the site have been classified as DS-1, AC1 however locally elevated sulphate concentrations meeting Class DS2, AC-2 and DS-3, AC-3 have been encountered.
CBR Design %	Granular soils can be re-engineered to ensure 5% within the sub-grade during favourable climatic conditions. Natural clay soils will provide a CBR in the order of 3-5% during drier climatic periods, however If water is allowed to shed onto the formation, the CBR will reduce to <2% which will require specialist engineering of the sub-grade.
Recommendations	Based on the findings of the intrusive investigation the following recommendation for further works have been identified: ■ Pre-demolition Asbestos Surveys of Existing Buildings; ■ Supplementary Post Demolition Site Investigation in areas not accessible during the previous phases of investigation; ■ Remediation & Enabling Works Strategy; ■ Delineation of previously identified asbestos and volatile contamination hotspots; ■ Arboricultural Survey; ■ Full three dimensional earthworks Cut / Fill Model; and, ■ Materials Management Plan.

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APPENDICES

Appendix I Limitations

Appendix II Glossary

Appendix III Drawings

Drawing No 23-1757-001 – Site Location Plan

Drawing No 23-1757-002 – Proposed Development Plan

Drawing No 23-1757-003 – Exploratory Hole Location Plan

Drawing No 23-1757-004 – Depth of Made Ground Plan

Drawing No 23-1757-005 – CBR Results Plan

Drawing No 23-1757-006 – Historical Features Plan

Appendix IV ERGO Exploratory Hole Logs

Appendix V Chemical Testing Results

Appendix VI Origin of Tier I Generic Assessment Criteria

1. INTRODUCTION

1.1 Background

ERGO has been commissioned by Lovell to undertake a supplementary Phase II Geo-Environmental Site Investigation for a parcel land at Whitburn Lodge, Sunderland.

This report is required to determine potential contaminated land liabilities, remediation requirements and geotechnical engineering works that will be required as part of the proposed development for the proposed low rise residential development with associated estate roads, car parking, and utility infrastructure.

The scope of work consisted of following elements.

- Detailed review of historic information;
- Design of suitable Supplementary Intrusive Ground Investigation;
- Mechanically excavated trial pits;
- In-situ Geotechnical Testing;
- Chemical & Geotechnical Laboratory analysis;
- Contamination Risk Assessment & Conceptual Site Model;
- Ground Gas Monitoring of existing serviceable Monitoring Well Installations;
- Geotechnical Assessment & Interpretation; and,
- Factual and interpretive reporting.

1.2 Site Details

Site Address	Land at Whitburn Lodge, Mill Lane, Whitburn.
National Grid Reference	E440717 N563522.
Site Area	1.04 Hectares.

A site location map is presented in Appendix III as Drawing 23-1757-001.

1.3 Proposed Development

ERGO understands that Lovell will develop the subject site for a low rise residential end use. The proposed development is understood to comprise 32no. detached, semi-detached and terraced properties with associated estate roads, private garden and utility infrastructure.

Drawing 22-1757-002 (Appendix III) identifies the proposed development layout. A snapshot of the proposed development is shown within Figure 1.1 below.

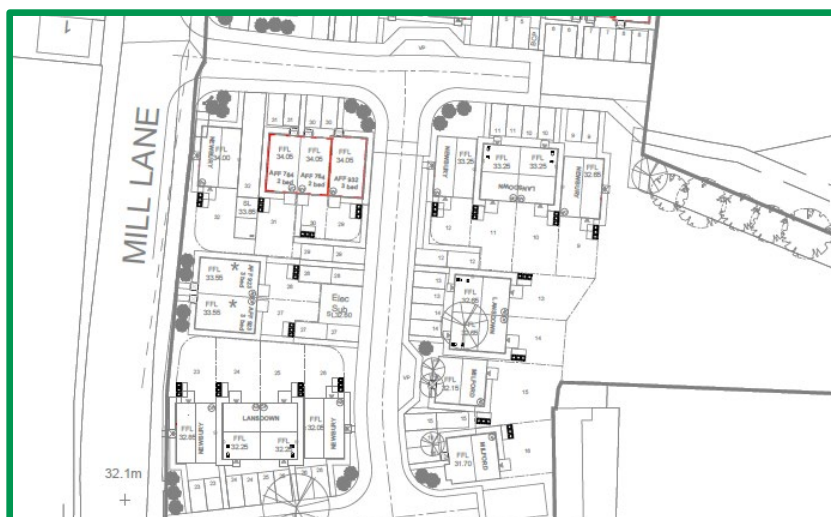


Figure 1.1 Snapshot of Proposed Development

1.4 Objectives

The objectives of the Geo-Environmental Investigation are to:

-  Undertake a Supplementary phase of sampling and analysis to provide an overview of environmental issues identified;
-  Assess the implications of any potential environmental risks, liabilities and development constraints associated with the site in relation to the future use of the site and in relation to off-site receptors;
-  Assess the geotechnical information and provide preliminary recommendations in relation to foundations, pavement construction and floor slabs; and,
-  Provide recommendations regarding future works required.

1.5 Previous Reports

ERGO have not been provided with any previously completed reports for the site; however a review of the South Tyneside Planning Portal has identified the following reports to have previously been completed at the site:

-  **ERGO:** *Phase II Geo-Environmental Site Assessment (ref: 22-1169-r02, dated May 2022).*
-  **ERGO:** *Remediation & Enabling Works Strategy (ref: 22-1169-r03, dated May 2022).*

The pertinent points of these reports have been summarised within Section 2.0 of this report. It is uncertain whether reliance on these documents is available.

1.6 Limitations & Glossary

The limitations of this report are presented in Appendix I.

All acronyms used within this report are defined in the Glossary presented in Appendix II.

For the avoidance of doubt, a Phase I Desk study was not within the outlined scope of works.

1.7 Confidentiality

ERGO has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from ERGO; a charge may be levied against such approval.

2. SUMMARY OF PREVIOUS REPORTS

2.1 Phase II Intrusive Site Investigation

ERGO previously completed a Phase II Geo-Environmental Site Assessment for Thirteen Homes (Ref: 22-1169-R02, March 2022) which determined the following.

Site Description

The subject site comprises an irregular shaped parcel of vacant land located to the East of Mill Lane to the north of Whitburn. The site is noted to comprise a derelict public house, Whitburn Lodge and electricity substation, with associated parking to the north and landscaping to the south. Fields were noted to be present in the eastern site area in use for grazing with allotments adjacent in the south-eastern site area.

The site is noted to be heavily vegetated comprise maintained grazed grassland in the eastern area, with dense unmaintained hedges, trees and self-seeded shrub vegetation with localised areas of lawn in the south-western site area. Semi-mature and mature trees are located on the northern site boundary.

Site History

A review of historical mapping records indicated the site was occupied by Hope House and fields until 1895, when Whitburn Colliery was developed. A number of buildings and railway sidings were noted to be present within the site associated with the colliery until closure in 1968 and subsequent demolition. The site was renamed Whitburn Lodge by 1988 and underwent a change of use to a public house with various extensions recorded to date. It is understood the premises closed in recent years and is presently in a poor state of repair.

A historical features plan, ref: 23-1751-006 is enclosed.

Note: It is understood that the existing Whitburn Lodge structure suffered fire damage in January 2023.

Coal Mining

A low risk from historic coal mining was identified at the site, it was considered that recorded mineshafts are sufficiently distant from the site whilst recorded workings were understood to be present at sufficient depth to ensure no unacceptable risk was posed. It is considered that no further assessment was required.

However, given the recorded minewater pumping works within the vicinity of the site, it was recommended that the Coal Authority should be consulted to confirm any proposed drainage system does not pose an unacceptable level of risk to the system.

Encountered Ground Conditions

Made Ground

Reworked topsoil was encountered within the southern and eastern site areas generally described as a greyish brown to dark brown slightly gravelly slightly clayey sandy topsoil with rootlets and gravels of brick and concrete to depths of between 0.20-0.50mbgl. underlain by blackish or reddish brown sands and gravels or reworked greyish brown firm to stiff clays at depths to between 0.30-0.80mbgl.

In areas of hardstanding, within the central site and car park area, exploratory holes encountered black bituminous macadam and surficial concrete to depths of c.0.05mbgl. overlying black sandy gravels and greyish brown very gravelly sands to variable depths between 0.45mbgl. (TP105) to 3.30mbgl. (TP103) Made Ground is recorded deepest in the north of the site, with shallower deposits noted in the south and east.

Localised hydrocarbon odours were noted within shallow Made Ground deposits within TP102A between 0.05-0.90mbgl.

Drift

Natural drift deposits predominantly comprise firm to stiff sandy gravelly CLAYs, interbedded with medium dense to very dense slightly silty slightly gravelly fine to coarse SANDs to general depths of between 2.10-7.50mbgl. Occasional thin bands of soft sandy gravelly CLAYs were noted within the central area of site (WS102, WS104, WS105 and WS107) at depths of between 0.70-1.60mbgl.

Drift was recorded to be locally deeper within BH105A (7.50mbgl) within the central area and WS111 (5.45+mbgl.) in the southern area, however generally window sample probeholes refused on suspected weathered rockhead at depths between 2.10-4.40mbgl across the remainder of the site.

Solid

Solid rockhead was proven within the rotary open boreholes undertaken within the northern and central site areas at depths between 2.80-7.50mbgl. to maximum proven depths of 12.00mbgl. Deposits were noted to comprise a weathered dolomitic Limestone.

Window sample probeholes and mechanically excavated trial pits encountered suspected weathered bedrock at depths of between 2.10-4.40mbgl. Within the southern site area, suspected weathered bedrock was noted to be most variable at depths of between 2.10-7.50+mbgl.

Contaminated Land

Human Health

A Human Health Risk Assessment identified elevated concentrations of nonvolatile, insoluble heavy metals and hydrocarbon compounds onsite that would present unacceptable degrees of theoretical risk to the identified receptors associated with direct exposure pathways. As such it will be necessary to design and construct the proposed development in a manner that will ensure suitably validated cover systems to all areas of private garden, soft landscaping and public open space where Made Ground is to remain at formation level.

Asbestos in the form of loose Chrysotile and Amosite fibres has been identified in shallow Made Ground deposits. Asbestos quantification was undertaken which determined the concentration of asbestos to be <0.001%v/v. Furthermore, visual signs of ACM tiles were encountered during the ground investigation in the vicinity of the existing buildings. A process of delineation is recommended to be undertaken to confirm the extent of the identified asbestos material. Subsequent excavation, management and placement of impacted soils at depth beneath proposed plots may be undertaken to ensure they pose no unacceptable risk to the future site users. All Asbestos Containing Material (ACM) identified during the site enabling works must be dealt with in strict accordance with the Control of Asbestos Regulations (CAR) 2012, UK Waste Management Legislation and the Environmental Protection Act 1994.

Controlled Waters

A low risk to controlled waters was determined based on the findings of the works undertaken. Though further assessment was recommended should significant groundwater or free phase contamination subsequently be encountered.

Ground Gas

Ground gas monitoring provided indicated the site would be classed as Characteristic Situation 1/Green, suggesting no gas protection measures will be required though further visits would be required to confirm this assessment.

Geotechnical Issues

Locally frequent buried brick and concrete features were encountered within probeholes at locations across the site correlating to previous phases of development. In some locations, Made Ground could not be fully penetrated due to the buried features.

Underlying firm to stiff clays/Medium dense sands were determined to represent suitable founding strata. It was considered that upon completion of a phase of enabling works and

subject to the receipt of finished site levels, it is likely that the most cost-effective option for the majority of the site would be the use of shallow strip/ mass trench foundations. Though localised deep Made Ground around TP103 may result in plots in this area requiring engineered foundations. Further investigation of the ground conditions within the footprint of existing onsite structures and other areas inaccessible was recommended to be undertaken to confirm proposed foundations within these areas.

2.2 Remediation & Enabling Works Strategy Summary

ERGO previously completed a Remediation & Enabling Works Strategy for Thirteen Homes (Ref: 22-1169-R03, dated May 2022) detailed the following recommendations to manage and mitigate identified potential risks associated with a proposed residential redevelopment:

- Post Demolition Supplementary Site Investigation within the footprint of the existing onsite structure and area inaccessible;
- Delineation and removal of identified asbestos impacted soils;
- Removal and treatment of all invasive plants species (as required);
- Validation testing to confirm material retained onsite pose no unacceptable risk; and,
- Incorporation of suitable clean cover systems within soft landscaping areas to mitigate non-volatile risks and texturally unsuitable soils.

The Remediation and Enabling Works were outlined to be delivered to ensure:

- Minimal disturbance within plots where shallow stratum suitable of supporting a shallow spread foundations is present;
- Where deep Made Ground is present (>1.50m), the stratum is to be prepared in a manner that will facilitate the use of piled or Vibro Stone Column (VSC) foundation solutions; and,
- Engineer all up-filled materials beneath highways to sub-grade in accordance with the requirements of this specification to ensure a CBR >5% in the subgrade.

3. GROUND INVESTIGATION

3.1 General

A Supplementary Ground Investigation has been designed based on the findings of the previous phases of investigation summarised within Section 2.0 and outlined scope of works agreed by Lovell. Exploratory probeholes were advanced to target previously highlighted areas of potential risk and contaminant sources, with a focus on the existing car park in the north of the site and the central site area. Exploratory fieldwork was completed on 2nd November 2023. The works are summarised in Table 3.1 below.

Table 3.1 Summary of Fieldwork

POTENTIAL SOURCE/ RATIONALE	LOCATION HOLE	TYPE	MAXIMUM DEPTH (mbgl)
General Ground Conditions including the presence / nature of obstructions relating to historic rail/track sidings and former buildings, areas of previously identified asbestos and PAH contamination and formerly recorded evidence of visual/olfactory contamination in the existing car park area.	TP201-TP204	Mechanically Excavated Trial Pit	3.10
General Ground Conditions including the presence/nature of obstructions relating to historic rail sidings in the existing car park area.	TP205-TP206		2.70
General Ground Conditions including the presence/nature of obstructions and areas of previously identified asbestos and PAH contamination relating to former buildings in the central site area	TP207-TP208		2.60

Mechanically excavated trial pits were advanced to investigate ground conditions and to retrieve environmental samples, spatially distributed to offer the maximum site coverage whilst also being advanced to target specific areas of identified contaminants.

The exploratory hole locations are illustrated in Drawing 23-1751-003 (Appendix III). The presence of existing onsite structures, dense vegetation, buried concrete obstructions and buried utility infrastructure restricted the locations where exploratory probeholes could be advanced. Access to the horse paddock within the eastern site area, was not undertaken during this phase of works.

Ground conditions encountered are indicated on the logs which are provided in Appendix IV.

Visits have been made following instruction to assess the condition and presence of formerly installed environmental monitoring wells for ground gas concentrations and groundwater level.

3.2 In-Situ California Bearing Ratio (CBR)

In-situ CBR tests were undertaken at selected locations using a mexiprobe. Tests were undertaken at depths between 300mm and 1m below ground level in order to intersect the likely pavement sub-formation level. Results are discussed within Section 4.1.8. and shown in ERGO drawing 23-1757-005.

3.3 Laboratory Analysis

Selected soil samples were submitted to I2 Analytical for a range of chemical analysis comprising metals, pH, total sulphate, water soluble sulphate (2:1 extract), sulphide, cyanide, phenols, total and speciated poly-aromatic hydrocarbons (PAHs), SVOCs, VOCs, asbestos and total and speciated petroleum hydrocarbon (TPH). Testing results are included in Appendix V and discussed in Section 5.0.

Laboratory analysis sheets are included in Appendix VII and are summarised in Section 4.0.

4. GROUND AND GROUNDWATER CONDITIONS

4.1 Ground and Groundwater Conditions

The Ground Investigation generally confirms the published geology and previous site investigation. For the avoidance of doubt, it is recommended that adequate consideration of Made Ground deposits outwith the accessible area within this phase of works should be undertaken. The identified strata are set out in Table 4.1 below:

Table 4.1 Summary of Strata

STRATA	GENERAL DESCRIPTION	TYPICAL DEPTH (mbgl):				LOCATION
		TOP:		BASE:		
		MIN:	MAX:	MIN:	MAX:	
MADE GROUND	MG: Black bituminous macadam.	0.00	-	-	0.05	TP201-TP206
MADE GROUND	MG: Concrete.	0.00	0.70	0.05	0.80	TP201-TP204
MADE GROUND	MG: Dark reddish brown gravelly sand.	0.05	-	-	0.60	TP201-TP202
MADE GROUND	MG: Black gravelly sand.	0.60	1.40	1.30	1.60	TP202-TP203, TP205-TP206, TP208
MADE GROUND	MG: Yellowish brown very gravelly sand.	0.50	1.30	1.10	1.70	TP202-TP208
MADE GROUND	MG: Black sandy gravel.	0.05	-	0.40	0.90	TP203, TP205
MADE GROUND	MG: Black clayey gravelly sand.	0.05	-	0.50	0.70	TP204, TP208
MADE GROUND	MG: Black and grey gravelly sand	1.10	-	-	1.70	TP204
SAND	Brown clayey gravelly SAND	1.10	2.50	2.00	3.10	TP202, TP204-TP208
CLAY	Stiff brown sandy silty gravelly CLAY	1.00	2.00	2.10	3.00	TP202-TP208

4.1.1 Made Ground

Made Ground deposits were encountered within all advanced exploratory probeholes locations to maximum proven depths of 1.00-1.70mbgl. though within TP201, the full thickness of Made Ground was unable to be proven due to a buried concrete obstruction.

Made Ground generally comprised surficial tarmac and concrete hardstanding to depths of 0.05mbgl. predominantly overlying black sandy gravels with timber, metal and clinker inclusions to depths of 1.00-1.70mbgl. with localised reddish brown/black occasionally clayey gravelly sands and light yellowish brown very gravelly sands noted. Buried brick and concrete features were noted within several of the advanced exploratory trial pits considered to represent relict foundations/floor slabs of formerly present onsite structures.

Ground conditions were noted to be comparable with those previously identified at the site though visual/olfactory evidence of hydrocarbon contamination was not determined to be present within the vicinity of TP102A where odours were formerly noted. Furthermore, it was previously noted that locally significant Made ground deposits were encountered within TP103 (>3.30m), trial pits within the vicinity did not determine the presence of significant thicknesses of Made Ground and it is therefore considered that these materials are likely of limited extent when considered works completed at the site to date.

ERGO Drawing 23-1757-004 displays the depth of Made Ground plan.

4.1.2 Drift Deposits

Drift deposits were encountered within the majority of advanced exploratory probeholes at depths of 1.00-1.70mbgl. excluding TP201, where the full thickness of Made Ground was unable to be determined. Drift deposits were noted to comprise firm brown sandy gravelly occasionally silty CLAYs overlying brown clayey gravelly sands to maximum proven depths of 3.10mbgl.

Ground conditions were noted to be comparable with those previously encountered.

4.1.3 Solid Geology

Bedrock was not encountered within this phase of intrusive site investigation.

Previous works at the site proved solid rockhead within the northern and central site areas at depths of 2.80-3.10mbgl. It should be noted that the encountered sand within BH105A between 2.80-7.50mbgl. is considered likely to represent weathered rockhead. Deposits were noted to comprise a weathered dolomitic Limestone.

4.1.4 Groundwater Conditions

During this phase of investigation, groundwater was only encountered within 1no. advanced exploratory probehole, TP208 in the central site area, as a strike at 2.10mbgl.

Previous investigation at the site did not encounter groundwater during ground investigation though groundwater monitoring indicated standing water levels to be present locally at depths between 2.39-3.65mbgl.

4.1.5 Soil Consistency

Undrained shear strength values were measured using field hand shear vane, the results tests completed within the current and previous phases of work are summarised in Table 4.2.

Table 4.2 Summary of Hand Shear Vane Tests

DEPTH (mbgl.)	SHEAR STRENGTH (KPA)
0.00-0.99	64-140
1.00-1.99	26-120
2.00-2.99	70-95
3.00-3.99	140

Previous phases of investigation at the site via boreholes determined in-situ cohesive deposits to have SPT 'N' values in the order of 1-50, generally becoming greater with depth. Whilst in-situ granular deposits were noted to have SPT 'N' values in the order of 5-50.

4.1.6 Side Stability and Ease of Excavation

Exploratory trial pit excavations during both phases of intrusive investigation appeared to be generally stable during excavation though localised instability was noted within TP208.

The presence of brick and concrete cobbles and buried features within Made Ground deposits meant that in certain places excavation was slow and in some places could not be fully penetrated. TP204 and TP208 in the existing car park identified buried brick features. TP201 and TP202 encountered buried concrete slabs while TP203 and TP204 encountered cobble obstructions. Previous phases of work at the site also noted buried obstructions predominantly within the northern site area though localised buried features were noted within the eastern and southern site areas.

4.1.7 pH and Sulphate

Chemical analyses for pH and soluble sulphate content contained in Appendix VII (summarised overleaf in Table 4.3), show soils at the site generally meet Class DS-1, Aggressive Chemical Environment for Concrete Classification (ACEC) AC-1 in accordance with BRE Special Digest 1 (2005). Though locally elevated sulphate concentrations meeting class DS-2, AC-2 (TP202 0.50mbgl.) and DS-3, AC-3 (TP204 0.40mbgl.) were noted.

Table 4.3 Summary of pH and Sulphate Data

LOCATION	DEPTH (m)	SO ₄ IN 2:1 WATER / SOIL (mg/l)	pH VALUE	CLASSIFICATION
TP202	0.50	1040	8.4	DS-2, AC2
TP202	1.00	174	8.3	DC-1, AC1
TP204	0.40	1700	7.3	DS-3, AC2
TP205	0.20	123	10.6	DC1, AC1
TP207	0.30	91.1	11.4	DC1, AC1
TP208	0.80	205	8.5	DC1, AC1

Previous works at the site noted ground conditions to predominantly meet DS-1, AC-1 though elevated sulphate concentrations meeting classification DS-2 AC-1 and DS-3 AC-3 were noted locally in the northern site area.

4.1.8 California Bearing Ratio

The California Bearing Ratio (CBR) for the soils were measured insitu using a Mexiprobe at depths between 0.30-1.00mbgl in areas where roads, driveways and parking are currently proposed. Results are shown on ERGO drawing 23-1757-007.

The results indicated values in the order of 4-15+% at depths of c.0.30-0.50mbgl. it is considered that higher CBR values in excess of 10% likely represent buried cobble obstructions rather than representative values.

It should be noted that the CBR's reported herein were obtained from soils in a highly undisturbed state.

4.1.9 Soil Infiltration

In-situ soakaway permeability tests were undertaken during a previous phase of investigation within the eastern site area.

Testing showed soakage potential to be low within cohesive deposits though deeper granular materials of limited thickness noted low to moderate soakaway potential.

Given the recorded minewater pumping works in the vicinity of the site, it is recommended that the Coal Authority and Environment Agency should be consulted to confirm any proposed drainage system does not pose an unacceptable level of risk to the system and wider surroundings.

4.1.10 Soil Plasticity

Previous investigation at the site noted encountered cohesive clay soils to be of low to medium volume change potential.

4.2 Existing Foundations

Investigation of the foundations of existing onsite structures was previously completed at the site which noted the following:

"Retaining wall foundation pits generally did not encounter footings with the exception of HDP105 where shallow foundations appear to be placed into the underlying clayey gravelly SANDs.

The bus shelter (HDP102) and the substation (HDP103) were observed to be placed on shallow concrete at shallow depths beneath ground level placed within the same clayey gravelly SAND.

TP109 was completed adjacent to the existing public house building (where access was possible), no evidence of foundations and/or evidence of a basement feature were encountered. Made Ground was recorded to a depth of 1.40mbgl. within this location."

4.3 Ground Gas

A supplementary programme of ground gas assessment has been completed following identification and status assessment of previously installed ground gas monitoring wells.

Works were undertaken in accordance with guidance provided within CIRIA 665 *Assessing risk posed by hazardous ground gases to buildings*.

4.3.1 Investigation Rationale

Previous works at the site identified underlying and adjacent Made Ground associated with historic development including Whitburn Colliery along with underlying historic coal mining and adjacent mineshafts represent potential sources of ground gas generation. ERGO determined the site represents a low ground gas source generation potential.

The spacing requirements for monitoring wells are detailed within CIRIA 665 Table 4.2 this indicates that for low gas hazard sites (*Made Ground with limited degradable material, organic clay of limited thickness*) and a high sensitivity development nominal well spacing should be between 25m and 50m. Table 4.4, displays the ground gas monitoring location rationale.

Table 4.4 Previously installed Ground Gas Monitoring Location Rationale

LOCATION	GROUND GAS SOURCE	DEPTH OF MONITORING WELL (m)
WS101	Onsite and adjacent Made Ground associated with the historic colliery	1.50-3.00
WS102		1.00-3.00
WS104		1.50-3.00
WS105		1.00-4.00
WS107		1.70-2.70
WS108		1.00-2.00
WS111		1.00-5.00
WS112		1.00-2.00
WS115		1.00-3.00
BH101	Solid geology and potential localised hydrocarbon contamination	4.00-8.00
BH102		4.00-9.00
BH103		3.50-10.00
BH104		4.00-9.00
BH105B		4.00-9.00

4.3.2 Monitoring Methodology

Concentrations of methane (CH₄), carbon dioxide (CO₂) and Oxygen (O₂) were measured using an infra-red gas analyser (GFM435) calibrated to a reference standard (before and after each survey) and gas flow rates were measured using an attached flow pod.

Gas measurements were recorded for a minimum of sixty seconds at each location, at which point the maximum concentration of CH₄ and CO₂ together with the lowest concentration of O₂ were recorded. The results of the previous ground gas monitoring are reproduced with supplementary monitoring results presented in Table 4.5 (overleaf).

Table 4.5 Summary of Ground Gas Monitoring Results

WELL	DATE	CH ₄ INITIAL %V/V	CH ₄ STEADY %V/V	CH ₄ GSV l/hr	CO ₂ INITIAL %V/V	CO ₂ STEADY %V/V	CO ₂ GSV l/hr	O ₂ %V/V	ATMOS (mB)	ATMOS. DYNAMIC	FLOW (l/hr)	RESPONSE ZONE (mbgl)	BASE DEPTH (mbgl)	WATER DEPTH (mbgl)
WS101	04/04/22	0.00	0.00	<0.01	0.70	0.70	<0.01	20.00	999	Rising	0.00	1.50-3.00	2.62	DRY
	14/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.80	1017	Rising	0.00		2.64	DRY
	27/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.50	1026	Rising	0.00		2.65	DRY
	27/10/23	0.00	0.00	<0.01	0.00	0.00	<0.01	20.50	989	Falling	0.00		2.65	DRY
	09/11/23	0.00	0.00	<0.01	2.20	2.20	<0.01	18.20	990	Falling	0.00		2.65	DRY
	20/11/23	0.00	0.00	<0.01	0.00	0.00	<0.01	21.20	1003	Steady	0.00		2.65	DRY
WS102	04/04/22	UNABLE TO ACCESS										1.00-3.00	N/A	
	14/04/22	0.00	0.00	<0.01	0.40	0.40	<0.01	19.60	1017	Rising	0.00		2.90	DRY
	27/04/22	0.00	0.00	<0.01	0.40	0.40	<0.01	20.00	1026	Rising	0.00		2.89	DRY
	27/10/23	0.00	0.00	<0.01	0.70	0.70	<0.01	19.90	989	Falling	0.00		2.90	DRY
	09/11/23	0.00	0.00	<0.01	0.50	0.50	<0.01	19.30	990	Falling	0.00		2.90	DRY
	20/11/23	0.00	0.00	<0.01	0.80	0.80	<0.01	19.50	1003	Steady	0.00		2.90	DRY
WS104	04/04/22	0.00	0.00	<0.01	2.50	2.50	<0.01	17.20	999	Rising	0.00	1.50-3.00	2.83	2.39
	14/04/22	0.00	0.00	<0.01	2.40	2.40	<0.01	16.60	1017	Rising	0.00		2.83	2.49
	27/04/22	0.00	0.00	<0.01	2.90	2.90	<0.01	15.50	1026	Rising	0.00		2.84	2.76
	27/10/23	0.00	0.00	<0.01	3.10	3.10	<0.01	16.80	989	Falling	0.00		2.84	DRY
	09/11/23	0.00	0.00	<0.01	3.60	3.60	<0.01	17.20	990	Falling	0.00		2.83	2.77
	20/11/23	0.00	0.00	<0.01	2.80	2.80	<0.01	17.50	1003	Steady	0.00		2.84	DRY
WS105	04/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.80	999	Rising	0.00	1.00-4.00	3.7	3.31
	14/04/22	0.00	0.00	<0.01	1.80	1.80	<0.01	18.70	1017	Rising	0.00		3.68	3.36
	27/04/22	0.00	0.00	<0.01	0.10	0.10	<0.01	20.50	1026	Rising	0.00		3.68	3.65
	27/10/23	0.00	0.00	<0.01	3.30	3.30	<0.01	16.50	989	Falling	0.00		3.70	3.65
	09/11/23	0.00	0.00	<0.01	1.80	1.80	<0.01	17.60	990	Falling	0.00		3.70	3.45
	20/11/23	0.00	0.00	<0.01	2.80	2.80	<0.01	16.60	1003	Steady	0.00		3.66	3.64
WS107	04/04/22	0.00	0.00	<0.01	0.80	0.80	<0.01	20.00	999	Rising	0.00	1.70-2.70	2.57	DRY
	14/04/22	0.00	0.00	<0.01	0.40	0.40	<0.01	20.50	1017	Rising	0.00		2.56	DRY
	27/04/22	0.00	0.00	<0.01	0.10	0.10	<0.01	20.50	1026	Rising	0.00		2.57	DRY
	27/10/23	0.00	0.00	<0.01	0.70	0.70	<0.01	19.70	989	Falling	0.00		2.55	DRY
	09/11/23	0.00	0.00	<0.01	0.80	0.80	<0.01	19.90	990	Falling	0.00		2.55	DRY
	20/11/23	0.00	0.00	<0.01	0.70	0.70	<0.01	19.80	1003	Steady	0.00		2.55	DRY
WS108	04/04/22	0.00	0.00	<0.01	1.10	1.10	<0.01	19.30	999	Rising	0.00	1.00-2.00	1.83	DRY
	14/04/22	0.00	0.00	<0.01	0.10	0.10	<0.01	20.70	1017	Rising	0.00		1.82	DRY
	27/04/22	0.00	0.00	<0.01	1.60	1.60	0.02	19.10	1026	Rising	1.10		1.84	DRY
	27/10/23	OVERGROWN/UNABLE TO ACCESS											N/A	

WELL	DATE	CH ₄ INITIAL %V/V	CH ₄ STEADY %V/V	CH ₄ GSV l/hr	CO ₂ INITIAL %V/V	CO ₂ STEADY %V/V	CO ₂ GSV l/hr	O ₂ %V/V	ATMOS (mB)	ATMOS. DYNAMIC	FLOW (l/hr)	RESPONSE ZONE (mbgl)	BASE DEPTH (mbgl)	WATER DEPTH (mbgl)
WS111	04/04/22	0.00	0.00	<0.01	0.70	0.70	<0.01	20.00	999	Rising	0.00	1.00-5.00	4.70	DRY
	14/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.80	1017	Rising	0.00		4.70	DRY
	27/04/22	0.00	0.00	<0.01	0.60	0.60	<0.01	20.10	1026	Rising	0.00		4.70	DRY
	27/10/23	0.00	0.00	<0.01	1.30	1.30	<0.01	19.30	989	Falling	0.00		4.70	DRY
	09/11/23	0.00	0.00	<0.01	1.30	1.30	<0.01	19.60	990	Falling	0.00		4.70	DRY
	20/11/23	0.00	0.00	<0.01	0.00	0.00	<0.01	21.10	1003	Steady	0.00		4.70	DRY
WS112	04/04/22	0.00	0.00	<0.01	0.80	0.80	<0.01	20.20	999	Rising	0.00	1.00-2.00	1.63	DRY
	14/04/22	0.00	0.00	<0.01	0.20	0.20	<0.01	20.70	1017	Rising	0.00		1.65	DRY
	27/04/22	0.00	0.00	<0.01	0.20	0.20	<0.01	20.50	1026	Rising	0.00		1.66	DRY
	27/10/23	0.00	0.00	<0.01	0.90	0.90	<0.01	19.80	989	Falling	0.00		1.60	DRY
	09/11/23	0.00	0.00	<0.01	0.90	0.90	<0.01	20.30	990	Falling	0.00		1.60	DRY
	20/11/23	0.00	0.00	<0.01	0.00	0.00	<0.01	21.10	1003	Steady	0.00		1.60	DRY
WS115	04/04/22	0.00	0.00	<0.01	0.90	0.90	<0.01	20.00	999	Rising	0.00	1.00-3.00	2.57	DRY
	14/04/22	0.00	0.00	<0.01	0.20	0.20	<0.01	20.70	1017	Rising	0.00		2.58	DRY
	27/04/22	0.00	0.00	<0.01	0.30	0.30	<0.01	20.40	1026	Rising	0.00		2.57	DRY
	27/10/23	OVERGROWN/UNABLE TO ACCESS											N/A	
BH101	04/04/22	0.00	0.00	<0.01	0.70	0.70	<0.01	20.10	999	Rising	0.00	4.00-12.00	9.90	DRY
	14/04/22	0.00	0.00	<0.01	1.00	1.00	<0.01	19.50	1017	Rising	0.00		9.90	DRY
	27/04/22	0.00	0.00	<0.01	0.50	0.50	<0.01	20.20	1026	Rising	0.00		10.00	DRY
	27/10/23	0.00	0.00	<0.01	1.30	1.30	<0.01	18.70	989	Falling	0.00		9.90	DRY
	09/11/23	0.00	0.00	<0.01	0.90	0.90	<0.01	19.30	990	Falling	0.00		9.85	DRY
	20/11/23	0.00	0.00	<0.01	1.20	1.20	<0.01	18.90	1003	Steady	0.00		8.90	DRY
BH102	04/04/22	0.00	0.00	<0.01	0.90	0.90	<0.01	19.30	999	Rising	0.00	4.00-9.00	8.70	DRY
	14/04/22	0.00	0.00	<0.01	1.60	1.60	<0.01	20.70	1017	Rising	0.00		8.70	DRY
	27/04/22	0.00	0.00	<0.01	1.50	1.50	<0.01	18.40	1026	Rising	0.00		8.55	DRY
	27/10/23	0.00	0.00	<0.01	1.30	1.30	<0.01	19.20	989	Falling	0.00		8.60	DRY
	09/11/23	0.00	0.00	<0.01	1.10	1.10	<0.01	19.30	990	Falling	0.00		8.55	DRY
	20/11/23	0.00	0.00	<0.01	1.40	1.40	<0.01	18.90	1003	Steady	0.00		8.60	DRY
BH103	04/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.80	999	Rising	0.00	3.50-9.00	9.93	DRY
	14/04/22	0.00	0.00	<0.01	1.70	1.70	<0.01	17.70	1017	Rising	0.00		9.93	DRY
	27/04/22	0.00	0.00	<0.01	2.00	2.00	<0.01	17.80	1026	Rising	0.00		9.84	DRY
	27/10/23	0.00	0.00	<0.01	2.30	2.30	<0.01	17.70	989	Falling	0.00		9.80	DRY
	09/11/23	0.00	0.00	<0.01	2.20	2.20	<0.01	18.10	990	Falling	0.00		9.70	DRY
	20/11/23	0.00	0.00	<0.01	2.60	2.60	<0.01	17.50	1003	Steady	0.00		9.81	DRY

WELL	DATE	CH ₄ INITIAL %V/V	CH ₄ STEADY %V/V	CH ₄ GSV l/hr	CO ₂ INITIAL %V/V	CO ₂ STEADY %V/V	CO ₂ GSV l/hr	O ₂ %V/V	ATMOS (mB)	ATMOS. DYNAMIC	FLOW (l/hr)	RESPONSE ZONE (mbgl)	BASE DEPTH (mbgl)	WATER DEPTH (mbgl)
BH104	04/04/22	NO BUNG										3.00-9.00	N/A	
	14/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.70	1017	Rising	0.00		8.10	DRY
	27/04/22	0.00	0.00	<0.01	0.00	0.00	<0.01	20.30	1026	Rising	0.00		8.06	DRY
	27/10/23	0.00	0.00	<0.01	0.50	0.50	<0.01	19.10	989	Falling	0.00		8.70	DRY
	09/11/23	0.00	0.00	<0.01	1.30	1.30	<0.01	19.30	990	Falling	0.00		8.70	DRY
	20/11/23	0.00	0.00	<0.01	0.40	0.40	<0.01	20.30	1003	Steady	0.00		8.70	DRY
BH105B	04/04/22	0.00	0.00	<0.01	1.30	1.30	<0.01	19.20	999	Rising	0.00	4.00-9.00	8.85	DRY
	14/04/22	0.00	0.00	<0.01	2.10	2.10	<0.01	17.90	1017	Rising	0.00		8.85	DRY
	27/04/22	0.00	0.00	<0.01	1.70	1.70	<0.01	19.30	1026	Rising	0.00		8.85	DRY
	27/10/23	0.00	0.00	<0.01	2.30	2.30	<0.01	17.80	989	Falling	0.00		8.85	DRY
	09/11/23	0.00	0.00	<0.01	1.90	1.90	<0.01	18.20	990	Falling	0.00		8.87	DRY
	20/11/23	0.00	0.00	<0.01	2.50	2.50	<0.01	17.00	1003	Steady	0.00		8.90	DRY

5. TIER I QUALITATIVE CONTAMINATED LAND RISK ASSESSMENT

ERGO has undertaken a Tier 1 qualitative risk assessment and review of previous ground investigation details to determine whether any potential contaminants within underlying soils and groundwater pose an unacceptable level of risk to previously identified receptors.

5.1 Human Health Risk Assessment

At Tier 1 stage the long term (chronic) human health toxicity of the soil is assessed by comparing the onsite concentrations of organic and inorganic compounds with reference values for a residential end-use as published in LQM / CIEH S4UL (S4UL3747). The results of this comparison have been summarised within Table 5.1.

Table 5.1 Summary of Toxicity Assessment for a Residential End Use

DETERMINANT	UNIT	GAC	N	MC	LOC. OF EX	PATH	ASSESSMENT
Arsenic	mg/kg	37	22	31	N/A	1	No Further Action
Cadmium	mg/kg	11	22	0.9	N/A	1	No Further Action
Chromium (VI)	mg/kg	6.1	22	<1.2	N/A	1	No Further Action
Lead	mg/kg	200	22	360	TP110 0.20 SA101 0.40 WS115 0.20	1	Further Assessment
Mercury	mg/kg	11	22	0.60	N/A	2	No Further Action
Nickel	mg/kg	180	22	42	N/A	1	No Further Action
Selenium	mg/kg	250	22	<1.0	N/A	1	No Further Action
Copper	mg/kg	2400	22	340	N/A	1	No Further Action
Zinc	mg/kg	3700	22	300	N/A	1	No Further Action
Phenols - Total.	mg/kg	210	9	<0.2	N/A	1	No Further Action
Asbestos	Fibres	NFD	6	0.015	TP207 0.30 TP102A 0.20 SA101 0.40	4	Further Assessment
Naphthalene	mg/kg	2.3	26	3.20	TP204 0.40	2	Further Assessment
Acenaphthylene	mg/kg	170	26	2.40	N/A	3	No Further Action
Acenaphthene	mg/kg	210	26	1.50	N/A	1	No Further Action
Fluorene	mg/kg	170	26	2.70	N/A	1	No Further Action
Phenanthrene	mg/kg	95	26	26	N/A	3	No Further Action
Anthracene	mg/kg	2400	26	8.7	N/A	3	No Further Action
Fluoranthene	mg/kg	280	26	29	N/A	3	No Further Action
Pyrene	mg/kg	620	26	25	N/A	3	No Further Action
Benzo(a)Anthracene	mg/kg	7.2	26	13	TP203 0.20 TP110 0.20	3	Further Assessment
Chrysene	mg/kg	15	26	13	N/A	3	No Further Action
Benzo(b)Fluoranthene	mg/kg	2.6	26	14	TP202 1.00 TP203 0.20 TP110 0.2.	3	Further Assessment
Benzo(k)Fluoranthene	mg/kg	77	26	4.1	N/A	3	No Further Action
Benzo(a)Pyrene	mg/kg	2.2	26	12	TP202 1.00 TP203 0.20 TP104 0.20 TP110 0.20	3	Further Assessment
Indeno(123-cd)Pyrene	mg/kg	27	26	6.7	N/A	3	No Further Action
Dibenzo(a,h)Anthracene	mg/kg	0.24	26	1.90	TP202 1.00 TP203 0.20 TP207 0.30 TP103 0.80 TP104 0.20 TP110 0.20 SA101 0.40	3	Further Assessment
Benzo(ghi)Perylene	mg/kg	320	26	8.3	N/A	3	No Further Action
TPH C5-C6 (ali)	mg/kg	42	13	<0.02	N/A	2	No Further Action
TPH C6-C8 (ali)	mg/kg	100	13	<0.02	N/A	2	No Further Action
TPH C8-C10 (ali)	mg/kg	27	13	<0.05	N/A	2	No Further Action
TPH C10-C12 (aro)	mg/kg	74	13	3	N/A	2	No Further Action

TPH C12-C16 (aro)	mg/kg	140	13	9	N/A	2	No Further Action
TPH C16-C21 (aro)	mg/kg	260	13	54	N/A	1	No Further Action
TPH C21-C35 (aro)	mg/kg	1100	13	830	N/A	1	No Further Action

Notes

Main Exposure Pathways: 1 = Soil Ingestion, 2 = Vapour Inhalation (indoor), 3 = Dermal Contact & Ingestion, 4 = Dust Inhalation. Abbreviations: GAC = General Assessment Criteria, n = number of samples, MC = Maximum Concentration; Loc of Ex = Location of Exceedance; NFD = No Fibres Detected

The Tier 1 GAC for the hydrocarbon fraction is derived from the CIEH assessment for petroleum hydrocarbons Criteria Working Group (CWG) for both aliphatic and aromatic compounds. ERGO has utilised the Tier 1 values for aliphatic compounds for the volatile and semi volatile fractions (C₅-C₁₂) and the Tier 1 values for aromatic compound for the non-volatile fractions (C₁₂-C₃₅). The comparison of a total (aliphatic/aromatic) compounds to an individual fraction is considered to be a conservative approach and satisfactory for the protection of human health.

Referring to Table 5.1, the results of this direct comparison indicates that the data exceeds the screening criteria for a residential end use for the following contaminants:

-  Lead
-  Asbestos Fibres (Chrysotile and Amosite)
-  Naphthalene
-  Benzo(a)Fluoranthene
-  Benzo(b)Fluoranthene
-  Benzo(a)Pyrene
-  Dibenzo(a,h)Anthracene

Asbestos in the form of Chrysotile and Amosite loose fibres and loose fibrous debris have been identified within shallow Made Ground deposits in TP207 (0.30mbgl), TP102A (0.20mbgl.) and SA101 (0.40mbgl.). Subsequent Asbestos quantification has determined the concentration of asbestos to be present at <0.001-0.015%v/v. Furthermore, visual evidence of suspected ACM in the form of cement roofing tiles were encountered during the previous ground investigation in the vicinity of the existing buildings.

Elevated non-volatile PAH concentrations were noted within shallow Made Ground deposits across the site between depths of 0.20-0.80mbgl.

Localised evidence of volatile Naphthalene was noted within TP204 (0.40mbgl.) though previously no significant concentrations of VOCs were identified in the soils submitted for chemical analysis and elevated PID readings were not recorded during the intrusive works.

No evidence of gross contamination was encountered in the exploratory locations undertaken.

The laboratory analysis confirms the assessment within the previously completed conceptual site model that the main constituents of concern were likely to include Heavy Metals, Asbestos and PAH contaminants. In relation to these exceedances, the following can be determined:

-  The main exposure pathways based on the Tier I exceedances are:

1. Soil Ingestion
2. Vapour Inhalation
3. Dermal Contact and Ingestion
4. Fibre / Dust Inhalation

-  The exceedances for all determinands are associated with shallow Made Ground deposits (0.20-1.00mbgl).

Previous assessment of the site included an additional assessment of existing hardstanding asphalt deposits which did not identify the presence of possible coal tar containing materials. No further assessment is considered to be required at this stage.

Risk Assessment and Mitigation

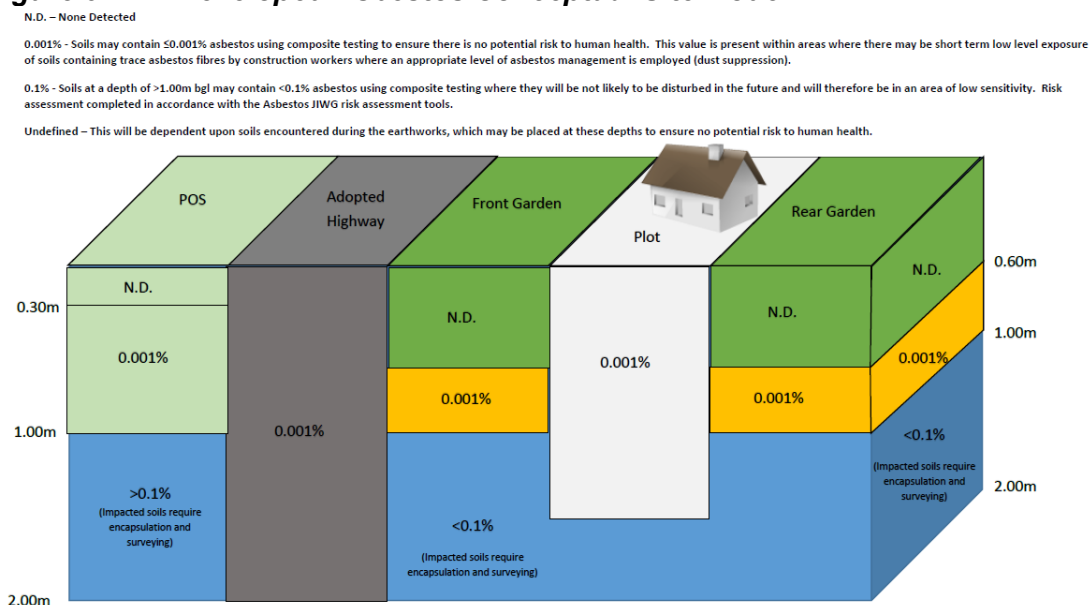
The elevated concentrations of non-volatile PAHs have primary exposure pathways related to dermal contact and ingestion of soils. The chronic risk to human health associated with elevated concentrations of non-volatile PAH compounds can be mitigated through the

installation of a suitable cover system in proposed gardens, landscaping and Public Open Space where impacted soils have been identified to remove the potential for direct exposure.

With regards to the elevated naphthalene concentration, this presents a potential volatilisation to indoor air risk. The elevated concentrations have only been identified within 1no. localised area (TP204) of the site and is therefore considered to represent a hotspot. Whilst TP204 is located within a proposed garden area, it is considered that adequate delineation of the impacted material should be undertaken during a phase of remediation and enabling works to confirm impacted soils do not extend in to areas of proposed elevated sensitivity.

Asbestos in the form of chrysotile and amosite fibres and fibrous debris has been identified within shallow Made Ground deposits within localised areas of the site. A process of delineation is recommended to be undertaken to confirm the extent of the identified asbestos material. Subsequent excavation, management and placement of impacted soils at depth beneath proposed plots may be undertaken to ensure they pose no unacceptable risk to the future site users as shown within the ERGO Developed Asbestos Conceptual Site Model as shown within Figure 5.1 below. Furthermore, visual ACM in the form of loose asbestos tiles were previously during the intrusive investigation in the area of existing buildings. It is considered that the existing structures should be subject to a pre-demolition asbestos survey with appropriate management undertaken, as required, to ensure no unacceptable risk is posed subsequently.

Figure 5.1 Developed Asbestos Conceptual Site Model



It is recommended that Made Ground deposits proposed for reuse in areas where asbestos has been identified previously are subject to a process of handpicking by a trained CAT B operative to ensure the removal of all residual visible ACM as far as reasonably practicable. All Asbestos Containing Material (ACM) identified during the site enabling works must be dealt with in strict accordance with the Control of Asbestos Regulations (CAR) 2012, UK Waste Management Legislation and the Environmental Protection Act 1994.

It is recommended that a Remediation Strategy & Enabling Works Strategy is produced for the site to include the appropriate management of Asbestos.

Chemical analysis of the natural drift deposits has identified these soils to be acceptable for use as subsoil within the proposed garden areas, however further chemical validation samples will be required to confirm this. The specific design and installation process for the appropriate cover systems will be clearly defined within a subsequently produced Site Remediation & Enabling Works Strategy.

It should be noted that an additional phase of post-demolition investigation is proposed within the footprint of existing onsite structures which may identify additional sources of potential contamination.

Should unforeseen ground conditions be subsequently encountered, ERGO should be contacted for further advice.

5.2 Controlled Waters Risk Assessment

The site sensitivity with respect to controlled waters was previously confirmed by ERGO within the previous Phase II Geo-Environmental Site Assessment which determined the potential vertical migration of contaminants towards the underlying Principal Aquifer as the only viable pathway. With the site located with a Zone 3 (Total Catchment) Source Protection Zone further increasing the sensitivity of the receptor. However, minimal groundwater and limited contamination was previously identified reducing the likelihood of vertical contaminant migration. Risks to surface water receptors were considered negligible in the absence of identified receptors.

To further refine the ICSM, ERGO has undertaken an initial qualitative assessment of soil data analysis from both phases of investigation undertaken to assess the potential for a source of separate phase or dissolved phase contamination originating from either a defined onsite source or from impacted soils. This assessment is summarised in Table 5.2 below.

Table 5.2 Qualitative Risk to Controlled Waters from Soil Analytical Results

BTEX - >1mg/kg	The soil data analysis has not identified any detectable concentrations of TPH C5 to C6 or BTEX compounds that might otherwise be indicative of VOC impact.
Total VOC - > 1mg/kg	
Total SVOC - > 1 mg/kg	Analysis recorded elevated levels of SVOCs above 1mg/kg within shallow Made Ground deposits across the site.
C5-C10 - > 5mg/kg	All concentrations are below the laboratory LOD.
C10-C12 - > 10mg/kg	All concentrations are below the laboratory LOD.
C12-C16 - > 50mg/kg	All concentrations are either below or just above the laboratory LOD.
Phenols - > 2mg/kg	All concentrations are below the laboratory LOD.
Naphthalene - > 2mg/kg	Naphthalene has been identified at concentrations greater than 2mg/kg within 1no. location TP204 (0.40mbgl.)
Total PAH - > 10mg/kg	Concentrations of low solubility PAH compounds greater than 10mg/kg have been detected within: - TP103 0.80mbgl: 12.80 mg/kg - TP104 0.20mbgl: 44.80 mg/kg - TP110 0.20mbgl: 98.00 mg/kg - SA101 0.40mbgl: 19.70 mg/kg - TP202 0.50mbgl: 11mg/kg - TP202 1.00mbgl: 58.4mg/kg - TP203 0.20mbgl: 169mg/kg - TP207 0.30mbgl: 23.8mg/kg
PCB - > 1mg/kg	No potential sources of PCB have been identified.
Heavy metals - > 500mg/kg	Concentrations of heavy metals are all below 500mg/kg.

In due consideration of the previously developed Conceptual Site Model which identified a potential pollutant linkage associated with the vertical migration towards the underlying Principal Aquifer, ERGO has undertaken a Tier I controlled waters risk assessment. The Tier I assessment has included a comparison of leachate analysis from samples of the Made Ground to Drinking Water Standards and Environmental Quality Standards (EQS) within both phases of work. These are presented in Table 5.3 (overleaf).

Table 5.3 Comparison of Leachate Analysis with Tier 1 Screening Levels

DETERMINAND	UNITS	EQS SCREENING VALUE ^{1, 2, 3}		DWS ^{3,4,5}	N	MC	LOC OF EX	ASSESSMENT
		AA	MAC					
Arsenic	µg/l	50	-	10	4	1.40	N/A	No Further Action
Cadmium	µg/l	0.08	0.45	5	4	0.09	N/A	No Further Action
Chromium (III)	µg/l	4.7	-	50	4	12	TP207 0.30m	Further Action
Copper (hardness)	µg/l	1-28	-	2000	4	89	N/A	No Further Action
Lead	µg/l	1.2	14	10	4	11	N/A	No Further Action
Mercury	µg/l	-	0.07	1.0	4	<0.5	N/A	No Further Action
Nickel	µg/l	4	34	20	4	1.6	N/A	No Further Action
Selenium	µg/l	-	-	10	4	<4.0	N/A	No Further Action
Zinc(hardness)	µg/l	8-125	-	-	4	14	N/A	No Further Action
pH		6-9			4	11	WS106 0.20m TP207 0.30m	Further Action

Notes

AA - Annual Average

MAC - Maximum Admissible Concentration

1. The Water Environment (Water Framework Directive) (England and Wales) (Amendment) Regulations (2015)
2. Directive establishing a framework for Community action in the field of water policy (Water Framework Directive)
3. Council Directive on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community (Dangerous Substances Directive) - List II substances
4. Council Directive on the quality of water intended for human consumption (Drinking Water Directive)
5. WHO Guidelines for Drinking Water Quality. Third edition (2004)

ERGO has compared the laboratory test data directly to the DWS, which are for the protection of drinking water/ aquifer quality. The leachate comparison indicates that the data exceeds for the following inorganic compounds:

- Chromium (III)
- pH

No free phase hydrocarbons were identified during the site investigation with very limited olfactory evidence of contamination noted.

Risk Assessment

The site is generally underlain by low permeability predominantly cohesive drift which will afford protection to the underlying Principal Aquifer. No significant visual/olfactory evidence of gross contamination was noted during this site investigation, though previously was noted within TP102A. Previous visits were made to sample any groundwater within deeper holes to determine the possible risk, however all deeper wells have remained dry reducing the sensitivity of migration to underlying aquifer resources.

Whilst elevated concentrations of Chromium and pH, it should be noted that the Tier I assessment criteria provides a conservative view, which may over-state the risk. Therefore, the risks to Controlled Water receptors is considered to be low.

Given the low sensitivity of the receptors and absence of free phase contamination, it is considered that no unacceptable risk is posed to Controlled Waters. No further assessment is considered to be required presently, however should evidence of gross/significant mobile contamination be subsequently encountered, this assessment will need to be revised.

5.3 Ground Gas

The potential impact on the development from ground gases has been assessed with reference to standards and guidelines published in CIRIA Report 665 (*Assessing risks posed by hazardous ground gases to buildings*, 2007).

The Phase I report and subsequent phases of Ground Investigation has identified the following potential sources of ground gas:

- Made Ground Deposits associated with onsite and adjacent historic development; and,
- Mining Legacy (Adjacent Colliery and Mineshafts)

5.3.1 Groundwater

Monitoring wells were predominantly noted to remain dry though groundwater was noted within installations in WS104 and WS105. WS104 where levels were noted to remain largely unchanged during the monitoring programme.

5.3.2 Gas Flow

During the monitoring positive flow was noted in 1no. monitoring hole location (WS108) at 1.10l/hr. No significant flow rates were recorded within the other monitoring locations.

5.3.3 Gas Concentrations

Methane was not recorded within any installations during the monitoring period.

Carbon dioxide concentrations were recorded within all the monitoring wells at concentrations ranging from 0.00-3.60%v/v (WS104).

5.3.4 Gas Assessment

In accordance with the methodology outlined with the CIRIA publication C665, ERGO have utilised the results of both phases of ground gas monitoring surveys to calculate a Gas Screening Value (GSV). The GSVs for the monitoring positions are summarised in Table 5.4.

Table 5.4 Gas Risk Profile & Location

LOCATION	Max CO2	GSV	Max CH4	GSV	Classification
WS101	2.20	0.02	0.00	<0.01	Green / CS1
WS102	0.80	<0.01	0.00	<0.01	Green / CS1
WS104	3.60	0.04	0.00	<0.01	Green / CS1
WS105	3.30	0.04	0.00	<0.01	Green / CS1
WS107	0.80	<0.01	0.00	<0.01	Green / CS1
WS108	1.10	0.01	0.00	<0.01	Green / CS1
WS111	1.30	0.01	0.00	<0.01	Green / CS1
WS112	0.90	0.01	0.00	<0.01	Green / CS1
WS115	0.90	0.01	0.00	<0.01	Green / CS1
BH101	1.30	0.01	0.00	<0.01	Green / CS1
BH102	1.60	0.02	0.00	<0.01	Green / CS1
BH103	2.60	0.03	0.00	<0.01	Green / CS1
BH104	1.30	0.01	0.00	<0.01	Green / CS1
BH105b	2.50	0.03	0.00	<0.01	Green / CS1

Based on the maximum GSV value obtained the site has been classified as CS1/Green when comparing results obtained to guidance outlined within CIRIA C665, and therefore gas protection measures are not required within proposed buildings. The findings of this assessment should be confirmed with the relevant regulatory authorities.

5.5 Preliminary Waste Characterisation Assessment

The procedures to be followed in carrying out the assessment of potentially hazardous waste are set out in the following document:

-  *Waste Classification: Guidance on the classification and assessment of waste (1st Edition 2015). Technical Guidance WM3, Environment Agency, 2015.*

ERGO have utilised the results obtained during both phases of intrusive investigation to determine preliminary waste classification.

One touch data, Haz Waste assessment tool has been utilised for the first step of the waste classification, the output from the assessment is enclosed and has been summarised below and shown within Appendix V.

Asbestos was identified within 1no. soil sample analysed during this investigation and 2no. samples within the previous intrusive works. However asbestos quantification has determined the concentrations to be <0.001%v/v which is below the hazardous waste threshold.

In view of the above assessment, generally the samples of Made Ground and natural strata tested have been classified as Non-Hazardous, with the exception of TP102A (0.20m) and TP207 (0.30m) which have been classified as Hazardous due to elevated TPH.

Waste Assessment Criteria testing was previously undertaken on 4no. representative samples of Made Ground. (TP101 0.50m, TP104 0.20m, TP109 1.20m and SA101 at 0.40m) which has indicated that materials from TP101 (gravelly sand) and TP109 (reworked clay) would be classified as Inert, and the material from TP104 (reworked topsoil) and SA101 (an ashy gravelly sand) would be classified as non-hazardous, due to elevated TOC above the Inert threshold levels and the presence of low level asbestos fibres, respectively. Natural strata should be acceptable as Inert waste.

Subsequent laboratory testing upon representative samples of hardstanding core samples recorded low concentrations of PAH compounds and coal tar indicators. Based on the results of the testing undertaken, the bituminous materials sampled would not be classified as hazardous waste due to potential coal tar.

It should be noted that the above conclusions relate to the specific samples tested during the previous investigation, and therefore material excavated during redevelopment will not necessarily have the same classification. It is recommended that waste materials varying from the samples tested and intended to be removed from site are tested individually to determine the classification of the waste.

Should visible asbestos be identified in soils remove offsite to landfill, it is possible that these materials would be classified as Hazardous. The waste classification should be confirmed with the individual landfill accepting the waste prior to disposal. These test results should not be regarded as being representative of materials on site for landfill export purposes since preparatory and excavation works often result in mixing of different types of materials.

5.4 Revised Conceptual Site Model

Following the completion of the intrusive site investigation, chemical analysis and risk assessment the revised conceptual site model has been prepared for the site, shown with Table 5.5 (overleaf).

Further to the assessment completed below, it is considered that a Supplementary Phase of post-demolition investigation will be required within the footprint of existing structures and additional sources of contamination may be identified.

For the avoidance of doubt, should evidence of unforeseen contamination be identified during any subsequent intrusive investigation and/or groundworks ERGO should be contacted for comment and assessment.

Table 5.6 Conceptual Model

PATHWAY	RECEPTOR	CONTAMINANT (SOURCE)	PROBABILITY	RISK	ASSESSMENT AND RECOMMENDATIONS
Inhalation of soil, fibres and dust.	Future site users and offsite receptors.	Identified Chrysotile and Amosite within shallow Made Ground deposits and suspected ACM within the fabric of the existing structure	Likely	Moderate/High	Amosite and Chrysotile asbestos has been identified within shallow Made Ground deposits analysed during the ground investigation with subsequent Asbestos quantification undertaken determining the concentration of asbestos to be <0.001-0.015%v/v. Furthermore, suspected ACM cement tiles were noted during the previous ground investigation and it is considered likely that further ACM will be present within the fabric of the onsite structure. Recommendation: It is recommended that a phase of delineation is completed within areas where asbestos has been identified at shallow depth. With subsequent management of impacted soils completed during redevelopment. A pre-demolition asbestos survey is recommended to be completed for all structures proposed for demolition with appropriate mitigation measures identified as necessary, and mitigation measures required. It is considered ACM may be present within the footprint of the existing onsite structure which should be confirmed during a subsequent intrusive investigation.
Inhalation of vapours. Migration through permeable strata and preferential pathways.	Future site users and offsite receptors.	Volatile PAH Contaminants within onsite Made Ground deposits	Likely	Low	Elevated concentrations of Naphthalene have been identified within TP204 (0.40mbgl.) though previously no significant concentrations of VOCs were identified in the soils submitted for chemical analysis and elevated PID readings were not recorded during the intrusive works. Recommendation: Delineation of identified impacted strata to confirm extent of soils and confirm subsequent management requirements.
Ingestion of soils, dust and direct contact with contaminated soils	Future site users and offsite receptors.	Heavy metal and PAH contaminants within shallow Made Ground deposits.	Locally likely	Moderate	Elevated concentrations of heavy metal and non-volatile PAH contaminants have been identified within localised areas of the site within Made Ground. Recommendation: Inclusion of a suitable clean cover system within areas of landscaping and gardens where impacted materials have been identified and Made Ground is to remain at formation level.

PATHWAY	RECEPTOR	CONTAMINANT (SOURCE)	PROBABILITY	RISK	ASSESSMENT AND RECOMMENDATIONS
Inhalation of gas. Migration through permeable strata and preferential pathways. Explosion in confined spaces.	Future site users. Buildings. Offsite land users.	Methane, carbon dioxide. (Made Ground onsite/adjacent and surrounding mining legacy)	Unlikely	Moderate	Gas Monitoring has classified the site as CS1/Green. It is considered that no protection measures will be required. Recommendation: Approval of classification by relevant authorities.
Vertical Migration.	Groundwater (Principal Aquifer).	Onsite Made Ground with potential mobile Contaminants present.	Unlikely	Low	Unlikely due to presence of low permeability drift deposits which are likely to inhibit migration through the underlying strata to controlled water receptors, along with the absence of significant groundwater and gross contamination. Recommendation: No significant risk has been identified, no further action is considered to be required.
Sulphate attack on concrete.	Building structure.	Sulphate (potential ash within made ground).	Locally Likely	Low	Samples of Made Ground and natural drift deposits across the site have been classified as DS-1, AC1s however some areas of shallow Made Ground have been classified as DS-2 and DS-3. It is likely that following enabling works, a concrete classification of DS-1, AC-1s will be suitable for the site. Recommendation: Use concrete of appropriate classification.



6. GEOTECHNICAL ASSESSMENT

6.1 Proposed Development

ERGO understands that Lovell will develop the subject site for a low rise residential end use. The proposed development is understood to comprise 32no. detached, semi-detached and terraced properties with associated estate roads, private garden and utility infrastructure. Drawing 22-1757-002 (Appendix III) identifies the proposed development layout.

6.2 Summary of Ground Conditions

Made Ground

Made Ground deposits were encountered within all advanced exploratory probeholes locations to maximum proven depths of 1.00-1.70mbgl. though within TP201, the full thickness of Made Ground was unable to be proven due to a buried concrete obstruction.

Made Ground generally comprised surficial tarmac and concrete hardstanding to depths of 0.05mbgl. predominantly overlying black sandy gravels with timber, metal and clinker inclusions to depths of 1.00-1.70mbgl. with localised reddish brown/black occasionally clayey gravelly sands and light yellowish brown very gravelly sands noted. Buried brick and concrete features were noted within several of the advanced exploratory trial pits considered to represent relict foundations/floor slabs of formerly present onsite structures.

Ground conditions were noted to be comparable with those previously identified at the site. It was previously noted that locally significant Made Ground deposits were encountered within TP103 (>3.30m), trial pits within the vicinity did not determine the presence of significant thicknesses of Made Ground and it is therefore considered that these materials are likely of limited extent when considered works completed at the site to date.

Drift

Drift deposits were encountered within the majority of advanced exploratory probeholes at depths of 1.00-1.70mbgl. excluding TP201, where the full thickness of Made Ground was unable to be determined. Drift deposits were noted to comprise firm brown sandy gravelly occasionally silty CLAYs overlying brown clayey gravelly sands to maximum proven depths of 3.10mbgl.

Ground conditions were noted to be comparable with those previously encountered.

Solid

Bedrock was not encountered within this phase of intrusive site investigation.

Previous works at the site proved solid rockhead within the northern and central site areas at depths of 2.80-3.10mbgl. It should be noted that the encountered sand within BH105A between 2.80-7.50mbgl. is considered likely to represent weathered rockhead. Deposits were noted to comprise a weathered dolomitic Limestone.

Groundwater

During this phase of investigation, groundwater was only encountered within 1no. advanced exploratory probehole, TP208 in the central site area, as a strike at 2.10mbgl.

Previous investigation at the site did not encounter groundwater during ground investigation though groundwater monitoring indicated standing water levels to be present locally at depths between 2.39-3.65mbgl.

6.3 Site Preparation

The site should be cleared and any vegetation below areas of proposed development stripped in accordance with Series 200 of the Specification for Highway Works. This should include:

-  Roots present below the footprint of proposed structures and infrastructure should be grubbed out and the resulting void infilled with suitable compacted engineered fill;
-  Demolition of all existing buildings and removal of all concrete and asphalt hardstanding;

-  Redundant services should be sealed off and grubbed out and replaced with suitable compacted engineered fill; and,
-  Buried structures/obstructions have been encountered onsite. These should be excavated from below the proposed development footprint with the resulting void backfilled.

6.4 Foundation Conditions & Assessment of Potential Bearing Capacities

In due consideration of the ground conditions encountered during both phases of investigation, in-situ and laboratory geotechnical testing, ERGO has undertaken an assessment of the net safe Allowable Bearing Pressure (ABP) within the underlying natural stratum to assist in the detailed design of foundations and infrastructure and determine the target founding stratum.

Based on assessment of the relative undrained shear strength, relative in-situ densities and corresponding safe net Allowable Bearing Potential, and subject to receipt of finished site levels the suitable target founding stratum has been identified as the underlying firm to stiff clays and medium dense sands. Subject to confirmation via intrusive investigation within previously inaccessible areas, confirmation of finished site levels, building loadings, aboricultural survey and following a programme of enabling works, it is understood that all plots are to be advanced with Vibro Stone Column (VSC) foundations to support a shallow strip or spread footing. It is recommended that confirmation of this proposal should be sought from a specialist contractor.

Adequate consideration of encountered buried obstructions and features and utility infrastructure should be undertaken which may limit the viability of VSC foundations.

Furthermore, given the access limitations during the works undertaken, the specific requirements for parts of the site inaccessible at the time of these investigation works are recommended to be confirmed following completion of a post-demolition phase of investigation. It is considered possible that locally significant thicknesses of Made Ground may be present associated with foundations and possible basement features (no evidence of this to date) of the onsite structures.

It is recommended that at working drawing stage a foundation schedule is prepared for the development taking account of the physical change of natural clay soils and current/proposed locations of trees. Foundation depths should take account of the presence of existing and proposed trees with foundations deepened locally, to mitigate the potential for volumetric instability attributed to fluctuations in moisture content, as required by NHBC / LABC.

Should unexpected ground conditions be encountered during redevelopment, ERGO should be contacted for further advice.

6.5 Ground Floor Slabs

Current building control regulations require that where infilled ground is present to depths in excess of 600mm or where the sub-stratum is variable in terms of the structure and settlement potential or where clay soils are present within the influence of existing or proposed trees, a suspended floor slab is required.

In this instance it is considered that for the majority of substructures would have in-excess of 600mm of infill and as such a suspended floor slab will be required.

Where a cast in-situ suspended slab is utilised with no sub-floor void, appropriate compressible material (heave precautions) will be required in construction of the substructure.

6.6 Heave Precautions

The site has been proven to be underlain by clay soils which are susceptible to volumetric instability due to fluctuations in moisture content, particularly within influencing distance of trees as per the NHBC / LABC conjectured zones of influence.

As the clay is deemed to be Medium Volume Change Potential, Heave Precautions are required to the internal face of the external load bearing walls (outside or within tree influence).

If a ground beam is to be constructed within the zone of tree influence, heave precautions are required to the underside of this and edge beams. If the ground floor slab is to be constructed with a beam and block floor, a minimum sub-floor void of 200mm is required within any structures located in the zone of conjectured tree influence.

If the ground floor slab is constructed with a cast in-situ suspended floor slab heave precautions that can tolerate 50mm of clay swelling are required within any part of the floor slab to be located within the zone of influence of a tree.

A summary of heave precautions is present in Table 6.1.

Table 6.1 Summary of Heave Precautions

		MINIMUM VOID DIMENSION FOR FOUNDATIONS, GROUND BEAMS AND SUSPENDED IN-SITU CONCRETE GROUND FLOORS		MINIMUM VOID DIMENSIONS UNDER PRE-CAST CONCRETE AND SUSPENDED TIMBER FLOORS
Volume Change Potential of Soil	Required Foundation Depth (m)	Thickness of Void Former Against Side of Foundation or Ground Beam (mm)	Thickness of Void Underside of Edge Beam and Floor Slab (mm)	Void Dimension (mm)
High (>40)	>2.50	Engineer Design		Engineer Design
	2.00-2.50	35	150	300
	1.50-2.00	25	75	
Medium (20-40)	>2.50	Engineer Design		Engineer Design
	2.00-2.50	25	100	250
	1.50-2.00	25	50	
Low (<20)	2.00-2.50	-	50	200
	>2.00	No Special Precautions		

*The thickness of compressible material required should be established from the manufacturer's recommendations, but generally will be approximately twice the void dimension shown.

6.7 Pavement Construction

A programme of remediation and enabling works will be required to remediate the proposed road sub-grade in accordance with the requirements of the highways design manual (series 600) for a Method Compaction.

Granular soils, where encountered, can be re-engineered to ensure 5% within the sub-grade during favourable climatic conditions.

Natural clay soils will provide a CBR in the order of 3-5% during drier climatic periods, however If water is allowed to shed onto the formation, the CBR will reduce to <2% which will require specialist engineering of the sub-grade.

6.8 Drainage

Soakaway tests previously completed in the cohesive deposits showed limited soakaway potential, yet the test completed in the deeper granular deposits of limited thickness indicated low-moderate soakage potential. However, significant volumes of low permeability clay are identified across the site. If soakaway drainage is to be considered locations may be limited on site to areas of localised granular drift of limited thickness and therefore may not be suitable for the proposed development.

Given the recorded minewater pumping works in the vicinity of the site, it is recommended that the Coal Authority should be consulted to confirm the proposed drainage system does not pose an unacceptable level of risk to the system.

The application of soakaway drainage will ultimately be dependent on the specific requirements of the development. All soakaways should be designed in accordance with BRE Special Digest 365 – *Soakaway Design*.

The presence of rockhead identified at 2.90mbgl (BH101) should be considered carefully in the design of the proposed site levels particularly for the requirements of any deep excavations which may be required.

6.9 Concrete Durability

Based upon BRE Special Digest 1 (2005) and the results of the chemical analyses summarised in Section 4.1.7, it is considered that subsurface concrete can generally be designed in accordance with Design Sulphate Class DS-1, Aggressive Chemical Environment for Concrete Classification (ACEC) AC-1 following the completion of site enabling works. Though localised elevated sulphate concentrations meeting Class DS-3, AC-2 were noted within the Made Ground deposits in WS104 at 0.50mbgl and TP204 at 0.40mbgl, and Class DS-2 AC-1 in Made Ground in TP101A at 0.50mbgl and TP202 at 0.50mbgl.

6.10 Excavations

Trial Pits were generally stable in both Made Ground and natural strata. Due to the potential variability of Made Ground and possibility of trench collapse it is considered that excavations are supported or battered back in accordance with guidance contained in CIRIA R97.

Site observations indicated that excavations should be feasible in the near surface with normal plant, however obstructions were identified in the near surface including brick structures, concrete slabs and disused service infrastructure. It is considered likely that further obstructions will be present within the footprint of the existing onsite structure. It is anticipated that any obstructions will be grubbed out during the reduced level dig for the sub structure.

During the subsequent monitoring, limited localised groundwater has been recorded within WS104 and WS105 in the eastern car park area at depths between 2.39m (WS104) and 3.65mbgl (WS105). It should be noted that the rapid rate of advancement of the exploratory holes may mask minor seepages and it should be borne in mind that water levels fluctuate with a number of influences including season, rainfall, dewatering and pumping activities. Therefore, water levels higher than those found during this investigation may be encountered.

Table 6.2, discusses the civil engineering risk matrix.

Table 6.2 Civil Engineering Excavation Risk Matrix

Risk Item	Present	Comment
Running Sands	No	Running sands were not encountered within the advanced exploratory probeholes.
Minor Water ingress	No	Minor water ingress will require localised dewatering/sump pumping during the construction of site drainage infrastructure. Ingress of water into foundation excavation will potentially flood excavations limiting the viability to cast concrete.
Shallow Bedrock	Yes	Shallow Bedrock has been identified at depths of 2.80-3.10mbgl. 2.90mbgl. The presence of shallow bedrock may impede excavation for deeper drainage infrastructure and foundations using traditional excavation plant and equipment.

6.11 Construction Activity and Inspection

The following activities and inspections should be incorporated into the site works:

- Due to the variability of the soils at the site it is recommended that sufficient allowance is made for the inspection of formation and sub formations to foundations and pavement construction;

-  Excavations where access is required should be subject to a risk assessment from a competent person and where appropriate mitigation measures such as benching back the sides or use of support systems in accordance with CIRIA R97 utilised;
-  It is considered that de-watering may be required, especially following periods of heavy rainfall. Removal of surface water and water within trenches should be possible with conventional sump pumping. Discharge of any water should be agreed with the relevant regulatory body and be undertaken under a trade effluent discharge, where required. Measures to remove silt and suspended solids may be required and consideration should be given to provision of space for settling tanks or an attenuation pond;
-  Where access to confined spaces is required appropriate mitigation measures should be addressed within the Construction Stage Health and Safety Plan. Particular account should be taken of the gas results; and,
-  The presence of potential contamination and mitigation measures should be addressed as part of the Construction Stage Health and Safety Plan and should include measures to design out the risks, reduce their impact and finally the use of Personnel Protective Equipment (PPE).

7. FURTHER WORKS

Based on the findings of the intrusive site investigation, the following additional works are recommended to be completed in due course:

-  Pre-demolition Asbestos Surveys of Existing Buildings;
-  Supplementary Post Demolition Site Investigation in areas not accessible during the previous phases of investigation;
-  Delineation of previously identified asbestos and volatile contamination hotspots;
-  Remediation & Enabling Works strategy;
-  Arboricultural Survey;
-  Plot Specific Foundation Schedule (upon receipt of the final development levels);
-  Full three dimensional earthworks Cut / Fill Model; and,
-  Materials Management Plan.

8. CONCLUSIONS

Contaminated Land

Human Health	Investigation of the site has determined the presence of Heavy Metal, Non-volatile and volatile PAH contamination and Asbestos contamination. Heavy metal and non-volatile contaminants were noted in locations across the site and are considered to be manageable through the incorporation of a suitable clean cover system within areas of proposed soft-standing. Volatile Naphthalene was identified within 1 no. sample (TP204 0.40m) and is considered to represent a hotspot of contamination. Delineation is recommended to be undertaken to confirm the extent and required management of impacted soils as part of any subsequent redevelopment. Amosite and Chrysotile asbestos fibres and fibrous debris have been encountered at the site with quantification recording concentrations of <0.001-0.015%v/v. It is considered that delineation of identified impacted soils should be undertaken to confirm the extent and management requirements of these soils. Furthermore, evidence of suspected ACM tiling was noted and it is considered likely that further ACM will be present within the fabric of the existing onsite structure. A pre-demolition asbestos survey is recommended to be undertaken to confirm risks and required management. Further post demolition investigation is required to confirm potential risks and liabilities within areas where access was not previously possible.
Controlled Waters	Low risk to controlled waters.
Ground Gas	Characteristic Situation 1

Geotechnical Issues

Excavations were generally stable though localised instability was noted within TP208. Brick and concrete cobbles and buried features were encountered within TP201-TP204 and meant excavation was slow and in some places Made Ground could not be fully penetrated. It is understood that Lovell are proposing to utilise a Vibro Stone Column (VSC) foundation solution for plots at the site. A specialist contractor should be contacted to confirm the viability. Adequate consideration of encountered buried obstructions and features and utility infrastructure should be undertaken which may limit the viability of VSC foundations. Further investigation of the ground conditions within the footprint of existing onsite structures and other areas inaccessible at the time of the current investigation is recommended to be undertaken to confirm ground conditions within these areas.

END OF REPORT

APPENDIX I LIMITATIONS

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between ERGO and the Client as indicated in Section 1.2.
2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.
3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.
4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not been made known or accessible.
5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.
6. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.
7. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials this is for indicative purposes only and do not constitute or replace full and proper surveys.
8. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.
9. ERGO cannot be held responsible for any use of the report or its contents for any purpose other than that for which it was prepared. The copyright in this report and other plans and documents prepared by ERGO is owned by them and no such plans or documents may be reproduced, published or adapted without written consent. Complete copies of this may, however, be made and distributed by the client as is expected in dealing with matters related to its commission. Should the client pass copies of the report to other parties for information, the whole report should be copied, but no professional liability or warranties shall be extended to other parties by ERGO in this connection without their explicit written agreement there to by ERGO.
10. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.

APPENDIX II GLOSSARY

TERMS

AST	Above Ground Storage Tank	SGV	Soil Guideline Value
BGS	British Geological Survey	SPH	Separate Phase Hydrocarbon
BSI	British Standards Institute	TPH CWG	Total Petroleum Hydrocarbon (Criteria Working Group)
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes	SPT	Standard Penetration Test
CIEH	Chartered Institute of Environmental Health	SVOC	Semi Volatile Organic Compound
CIRIA	Construction Industry Research Association	UST	Underground Storage Tank
CLEA	Contaminated Land Exposure Assessment	VCCs	Vibro Concrete Columns
CSM	Conceptual Site Model	VOC	Volatile Organic Compound
DNAPL	Dense Non-Aqueous Phase Liquid (chlorinated solvents, PCB)	WTE	Water Table Elevation
DWS	Drinking Water Standard	m	Metres
EA	Environment Agency	km	Kilometres
EQS	Environmental Quality Standard	%	Percent
GAC	General Assessment Criteria	%v/v	Percent volume in air
GL	Ground Level	mb	Milli Bars (atmospheric pressure)
GSV	Gas Screening Value	l/hr	Litres per hour
HCV	Health Criteria Value	µg/l	Micrograms per Litre (parts per billion)
ICSM	Initial Conceptual Site Model	ppb	Parts Per Billion
LNAPL	Light Non-Aqueous Phase Liquid (petrol, diesel, kerosene)	mg/kg	Milligrams per kilogram (parts per million)
ND	Not Detected	ppm	Parts Per Million
LMRL	Lower Method Reporting Limit	mg/m³	Milligram per metre cubed
NR	Not Recorded	m bgl	Metres Below Ground Level
PAH	Polycyclic Aromatic Hydrocarbon	m bcl	Metre Below Cover Level
PCB	Poly-Chlorinated Biphenyl	mAOD	Metres Above Ordnance Datum (sea level)
PID	Photo Ionisation Detector	kN/m²	Kilo Newtons per metre squared
QA	Quality Assurance	µm	Micro metre
SGV	Soil Guideline Value		

APPENDIX III DRAWINGS





Key:

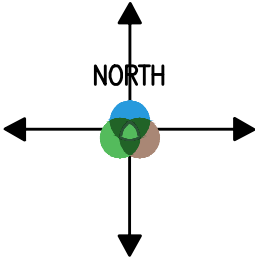
Notes:

P1	-	16.11.2023	DRAFT	RB	JN
Phase	Revision	Date	Issue	Drawn	Authorised
Client: Lovell			Job No: 23-1757	Date: 16.11.2023	
			Drawing No: 002	Scale: NTS	
Job Title: Land at Whitburn Lodge			Drawing Title: Proposed Development Plan		



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Email: info@ergoenvironmental.com

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 Existing Buildings - Depth of Made Ground to be Confirmed Following Demolition

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Key:

Location Symbols



Approximate CBR Probe Location and CBR Result

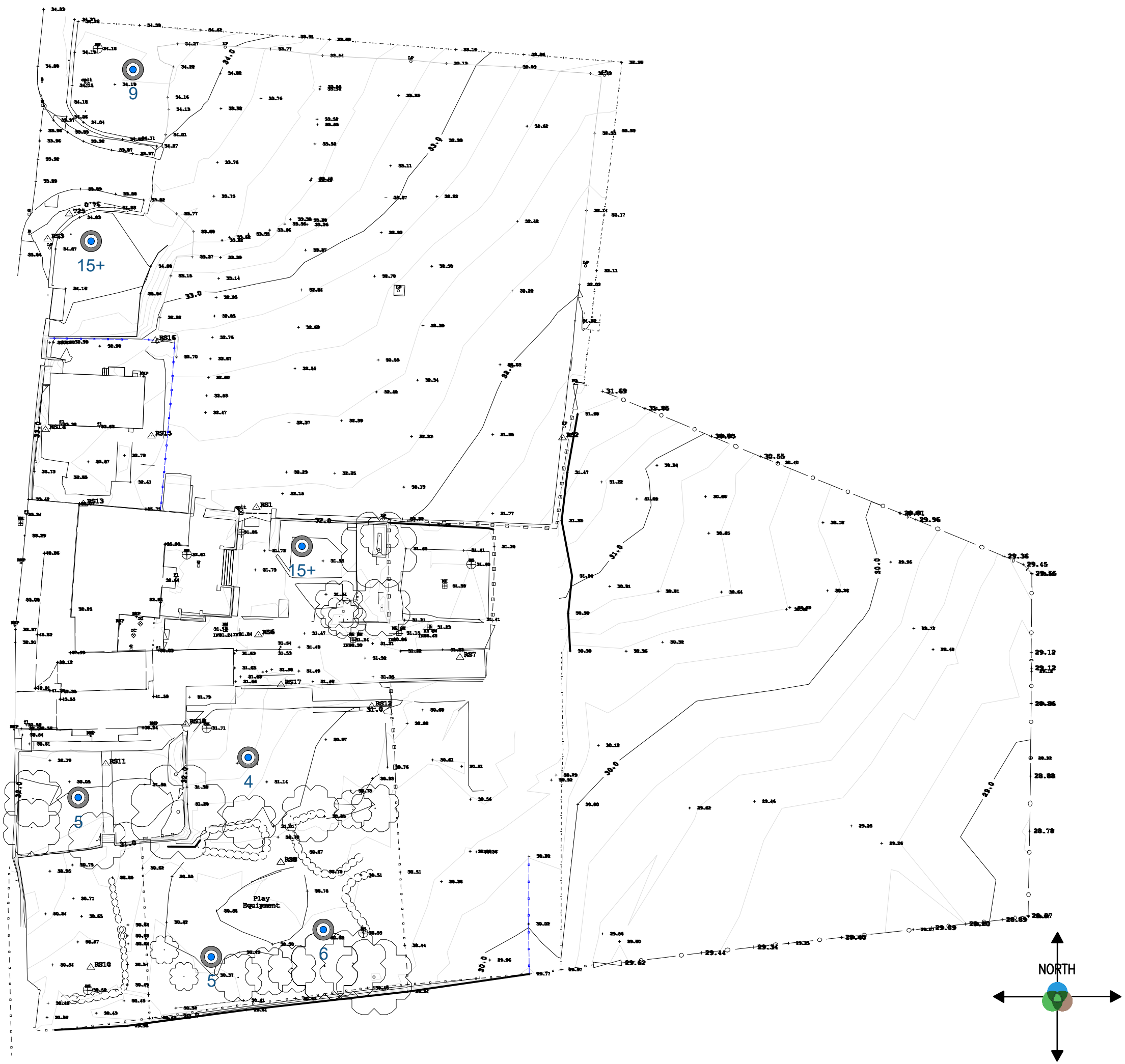
Notes:

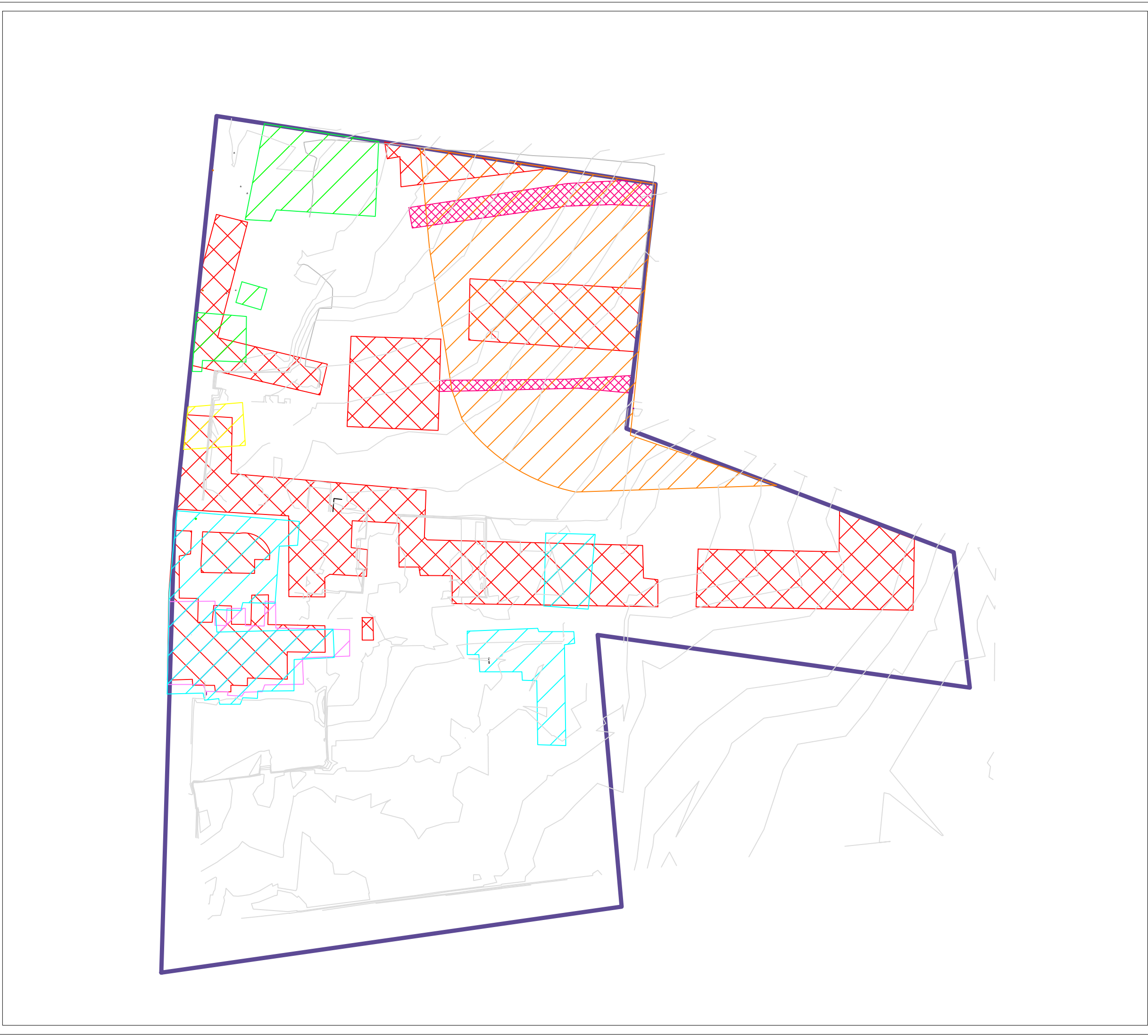
P1	-	16.11.2023	DRAFT	RB	JN
Phase	Revision	Date	Issue	Drawn	Authorised
Client: <					



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Key:

Historical Features

- Former Buildings (Pre 1896 - Pre 1983)
- Former Buildings (Pre 1942 - Pre 1983)
- Railway track (Pre 1896 - Pre 1959)
- Rail sidings (Pre 1942 - Pre 1983)
- Electrical Sub Station (Pre 1983 - Present)
- Former Buildings (Pre 1983 - Pre 1994)
- Current Buildings (Pre 1994 - Present)
- Site Boundary

Notes:

P1	-	20.11.2023	DRAFT	RB	JN
Phase	Revision	Date	Issue	Drawn	Authorised
Client:			Job No:	Date:	
Lovell			23-1757	20.11.2023	
			Drawing No:	Scale:	
			006	NTS	
Job Title:			Drawing Title:		
Whitburn Lodge			Historical Features Plan		

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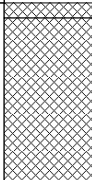
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APPENDIX IV ERGO EXPLORATORY HOLE LOGS



Trial Pit Log - TP201

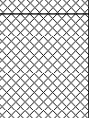
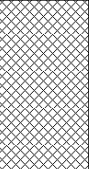
Project Name: Land at Whitburn Lodge		Client: Lovell		Date: 02/11/2023	
Location: Whitburn		Contractor: Patterson Plant Hire			
Project No. : 23-1757				Equipment: JCB 3CX	
Location Number TP201	Location Type TP		Logged By JY	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.50	ES		0.05			MADE GROUND: Black bituminous macadam.		
					0.60			MADE GROUND: Dark reddish brown very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of sandstone, limestone, brick, concrete, dolomite and metal.		
End of Trial Pit at 0.60m									1	
									2	
									3	
									4	
									5	

Dimensions		Trench Support and Comment			Pumping Data		
Pit Length 3.00	Pit Width 0.60	Pit Stability Stable	Shoring Used	Remarks	Date	Rate	Remarks

Remarks

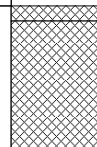
1. Terminated at 0.60mbgl due to concrete slab. 2. No groundwater encountered. 3. Stable. 4. Extended north to attempt to determine extent of slab, unproven.

		Trial Pit Log - TP203									
Project Name: Land at Whitburn Lodge				Client: Lovell				Date: 02/11/2023			
Location: Whitburn				Contractor: Patterson Plant Hire							
Project No. : 23-1757								Equipment: JCB 3CX			
Location Number TP203		Location Type TP				Logged By JY		Scale 1:25		Page Number Sheet 1 of 1	
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
					0.05			MADE GROUND: Black bituminous macadam.	1 2 3 4 5		
		0.20	ES		0.40			MADE GROUND: Black sandy gravel. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of limestone, sandstone, brick and clinker.			
				0.50		MADE GROUND: Concrete slab.					
		0.70	ES				MADE GROUND: Yellowish brown very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of dolomite, limestone, clinker and brick.				
				1.10			MADE GROUND: Black very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of limestone, sandstone, brick and concrete. Cable noted in west of pit.				
		1.50	ES		1.60			Stiff light brown sandy slightly silty slightly gravelly CLAY. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.			
		2.00		D	HVP=80						2
		2.00									
		2.50		ES	HVP=95						
		2.50									
				3.00			End of Trial Pit at 3.00m	3			
										4	
										5	
Dimensions		Trench Support and Comment				Pumping Data					
Pit Length 3.00	Pit Width 0.60	Pit Stability Stable	Shoring Used	Remarks			Date	Rate	Remarks		
Remarks 1. Completed at 3.00mbgl. 2. No groundwater encountered. 3. Stable. 4. Buried cable encountered at 0.90mbgl., pit extended eastwards											



Trial Pit Log - TP204

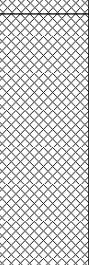
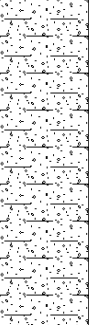
Project Name: Land at Whitburn Lodge		Client: Lovell		Date: 02/11/2023	
Location: Whitburn		Contractor: Patterson Plant Hire			
Project No. : 23-1757				Equipment: JCB 3CX	
Location Number TP204	Location Type TP		Logged By JY	Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.40	ES		0.05			MADE GROUND: Black bituminous macadam.	1	
								MADE GROUND: Black slightly clayey very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of clinker, brick, sandstone and macadam. Brick wall/foundation noted.		
								MADE GROUND: Concrete.		
		0.80	ES		0.50					
					0.60					MADE GROUND: Yellowish brown very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of dolomite, limestone, clinker and brick.
					1.10					MADE GROUND: Black and grey gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of sandstone, brick and coal. Cable noted in East of pit.
		2.00	D		1.70					
										Light brown very clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.
		2.50	ES		2.60					
						End of Trial Pit at 2.60m				
								3		
								4		
								5		



Trial Pit Log - TP205

Project Name: Land at Whitburn Lodge			Client: Lovell			Date: 02/11/2023			
Location: Whitburn			Contractor: Patterson Plant Hire						
Project No. : 23-1757						Equipment: JCB 3CX			
Location Number TP205		Location Type TP				Logged By JY		Scale 1:25	Page Number Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES		0.05			MADE GROUND: Black bituminous macadam.	1
		0.20			MADE GROUND: Black sandy gravel. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of limestone, sandstone, brick and clinker.				
		0.90			MADE GROUND: Yellowish brown very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of dolomite, limestone, clinker and brick.				
		1.40	ES		1.40		MADE GROUND: Black very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of limestone, clinker and brick.		
		1.60			Light brown clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.				
2.00	D		2.00		End of Trial Pit at 2.70m	3			
2.70			2.70					4	
									5

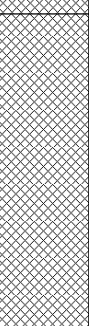
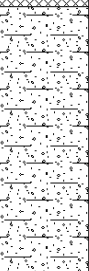
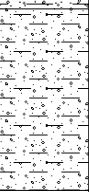
Dimensions		Trench Support and Comment			Pumping Data		
Pit Length 2.40	Pit Width 0.60	Pit Stability Stable	Shoring Used	Remarks	Date	Rate	Remarks

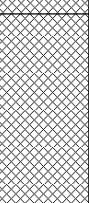
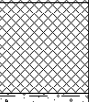
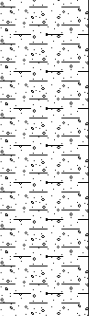
Remarks

1. Completed at 2.70mbgl. 2. No groundwater encountered. 3. Stable.



1. Completed at 2.60mbgl. 2. No groundwater encountered. 3. Stable.

			Trial Pit Log - TP207						
Project Name: Land at Whitburn Lodge			Client: Lovell			Date: 02/11/2023			
Location: Whitburn			Contractor: Patterson Plant Hire						
Project No. : 23-1757						Equipment: JCB 3CX			
Location Number TP207		Location Type TP				Logged By JY		Scale 1:25	Page Number Sheet 1 of 1
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05			0.05			MADE GROUND: Concrete slab.	1
	0.20	ES			1.10			MADE GROUND: Black gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of sandstone, limestone, mudstone, concrete, brick, ash and coal. Frequent rootlets noted.	
	1.50 1.50	D ES			2.00			Light brown very clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.	2
	2.50 2.50 2.50	D ES	HVP=80		2.60			Stiff light brown very sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.	3
								End of Trial Pit at 2.60m	4
									5
Dimensions		Trench Support and Comment				Pumping Data			
Pit Length 2.40	Pit Width 0.60	Pit Stability Stable	Shoring Used	Remarks			Date	Rate	Remarks
Remarks 1. Completed at 2.60mbgl. 2. No groundwater encountered. 3. Stable.									

			Trial Pit Log - TP208						
Project Name: Land at Whitburn Lodge			Client: Lovell				Date: 02/11/2023		
Location: Whitburn			Contractor: Patterson Plant Hire						
Project No. : 23-1757							Equipment: JCB 3CX		
Location Number TP208		Location Type TP				Logged By JY		Scale 1:25	Page Number Sheet 1 of 1
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05			0.05			MADE GROUND: Concrete slab.	1
		0.40	ES		0.40			MADE GROUND: Black slightly clayey very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of mudstone, brick, concrete and ash.	
		0.70			0.70			MADE GROUND: Black very gravelly sand. Sand is fine to coarse. Gravel is angular to sub-rounded fine to coarse of sandstone, mudstone, brick and concrete. Frequent large brick cobbles noted.	
		0.80	ES		0.80			Stiff light brown very sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.	
		1.50 1.50	D	HVP=85	1.00			Light brown clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is sub-angular to sub-rounded fine to coarse of sandstone, mudstone and coal.	
2.20	D		2.10		End of Trial Pit at 2.60m	3			
					2.60				4
									5
Dimensions		Trench Support and Comment				Pumping Data			
Pit Length 2.40	Pit Width 0.60	Pit Stability Stable	Shoring Used	Remarks		Date	Rate	Remarks	
Remarks 1. Completed at 2.60mbgl. 2. Groundwater encountered at 2.10mbgl as a strike. 3. Unstable.									

APPENDIX V CHEMICAL TESTING RESULTS

Alicia Becker
Ergo Environmental Ltd
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Benton
NE12 9SZ

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e: reception@i2analytical.com

e: Ergo Group

Analytical Report Number : 23-66827

Replaces Analytical Report Number: 23-66827, issue no. 1
Additional analysis undertaken.
Quantification added to positive sample as per client's requested.

Project / Site name:	Whitburn	Samples received on:	03/11/2023
Your job number:	23-1757	Samples instructed on/ Analysis started on:	03/11/2023
Your order number:	2205-JY-23-1757	Analysis completed by:	17/11/2023
Report Issue Number:	2	Report issued on:	21/11/2023
Samples Analysed:	2 leachate samples - 7 soil samples		

Signed:



Dominika Liana
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-66827
Project / Site name: Whitburn
Your Order No: 2205-JY-23-1757

Lab Sample Number				2867801	2867802	2867803	2867804	2867805
Sample Reference				TP202	TP202	TP203	TP204	TP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	0.20	0.40	0.20
Date Sampled				02/11/2023	02/11/2023	02/11/2023	02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	8	7.9	14	10
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.9	0.8	0.9

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	PDO	PDO	PDO	N/A	PDO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	8.3	-	7.3	10.6
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	2100	350	-	3400	250
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.04	0.174	-	1.7	0.123
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1040	174	-	1700	123
Organic Matter (automated)	%	0.1	MCERTS	6.5	2.6	7.7	9.5	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	1.5	1.1	2.9	3.2	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.29	0.64	0.48	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	0.2	0.13	1.5	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	0.21	0.51	2.7	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	1.6	2.2	26	1.9	-
Anthracene	mg/kg	0.05	MCERTS	0.33	3.3	8.7	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	1.2	8.8	29	0.29	-
Pyrene	mg/kg	0.05	MCERTS	1.1	9.2	25	0.23	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.74	5.5	13	0.11	-
Chrysene	mg/kg	0.05	MCERTS	0.93	7	13	0.2	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.89	5.9	14	0.1	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.32	2.6	4.1	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.66	4.8	12	0.07	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.46	2.8	6.7	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.96	1.9	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.63	3	8.3	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	11	58.4	169	6.12	-
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Analytical Report Number: 23-66827
 Project / Site name: Whitburn
 Your Order No: 2205-JY-23-1757

Lab Sample Number	2867801	2867802	2867803	2867804	2867805
Sample Reference	TP202	TP202	TP203	TP204	TP205
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	0.50	1.00	0.20	0.40	0.20
Date Sampled	02/11/2023	02/11/2023	02/11/2023	02/11/2023	02/11/2023
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	9.8	-	31	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	0.5
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	-	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	18	-	15	12
Copper (aqua regia extractable)	mg/kg	1	MCERTS	48	29	-	37	96
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44	28	-	33	100
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	20	-	9.8	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	50	-	14	110

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0	-
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	-	< 5.0	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	-	< 0.020	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.02	NONE	< 0.020	< 0.020	-	< 0.020	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.05	NONE	< 0.050	< 0.050	-	< 0.050	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	6	2.4	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	13	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	72	13	-	< 8.0	-
TPH-CWG - Aliphatic > EC35 - EC44 EH_CU_1D_AL	mg/kg	8.4	NONE	74	12	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	91	19	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) EH_CU+HS_1D_AL	mg/kg	10	NONE	170	31	-	< 10	-

TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	-	< 0.010	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.01	NONE	< 0.010	< 0.010	-	< 0.010	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.05	NONE	< 0.050	< 0.050	-	< 0.050	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	3.9	< 2.0	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	20	30	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	120	71	-	< 10	-
TPH-CWG - Aromatic > EC35 - EC44 EH_CU_1D_AR	mg/kg	8.4	NONE	160	41	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	150	100	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC44) EH_CU+HS_1D_AR	mg/kg	10	NONE	300	140	-	< 10	-

Analytical Report Number: 23-66827
 Project / Site name: Whitburn
 Your Order No: 2205-JY-23-1757

Lab Sample Number				2867801	2867802	2867803	2867804	2867805
Sample Reference				TP202	TP202	TP203	TP204	TP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	0.20	0.40	0.20
Date Sampled				02/11/2023	02/11/2023	02/11/2023	02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chloroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Bromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1-dichloroethene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1-dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chloroform	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2-dichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
Carbontetrachloride	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Tetrachloroethene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
Styrene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromoform	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Bromobenzene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
N-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,3-dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
P-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,4-dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2-dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
Butylbenzene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-

Analytical Report Number: 23-66827
Project / Site name: Whitburn
Your Order No: 2205-JY-23-1757

Lab Sample Number				2867801	2867802	2867803	2867804	2867805
Sample Reference				TP202	TP202	TP203	TP204	TP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	0.20	0.40	0.20
Date Sampled				02/11/2023	02/11/2023	02/11/2023	02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	< 5.0	-	-	-

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	-	-	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	< 0.3	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	1.5	1.1	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	2.9	1.6	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.29	0.64	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	0.2	0.13	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	0.6	0.5	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	< 0.2	-	-	-
Fluorene	mg/kg	0.05	MCERTS	0.21	0.51	-	-	-
Azobenzene	mg/kg	0.3	NONE	< 0.3	< 0.3	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	1.6	2.2	-	-	-
Anthracene	mg/kg	0.05	MCERTS	0.33	3.3	-	-	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3	0.5	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	NONE	< 0.3	< 0.3	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	1.2	8.8	-	-	-
Pyrene	mg/kg	0.05	MCERTS	1.1	9.2	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	< 0.3	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.74	5.5	-	-	-
Chrysene	mg/kg	0.05	MCERTS	0.93	7	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.89	5.9	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.32	2.6	-	-	-

Analytical Report Number: 23-66827
Project / Site name: Whitburn
Your Order No: 2205-JY-23-1757

Lab Sample Number				2867801	2867802	2867803	2867804	2867805
Sample Reference				TP202	TP202	TP203	TP204	TP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	1.00	0.20	0.40	0.20
Date Sampled				02/11/2023	02/11/2023	02/11/2023	02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.66	4.8	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.46	2.8	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.96	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.63	3	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-66827
Project / Site name: Whitburn
Your Order No: 2205-JY-23-1757

Lab Sample Number				2867806	2867807
Sample Reference				TP207	TP208
Sample Number				None Supplied	None Supplied
Depth (m)				0.30	0.80
Date Sampled				02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	16
Total mass of sample received	kg	0.001	NONE	0.8	0.9

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	0.015	-
Asbestos Quantification Total	%	0.001	ISO 17025	0.015	-
Asbestos Analyst ID	N/A	N/A	N/A	PDO	PDO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	11.4	8.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	180	410
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0911	0.205
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	91.1	205
Organic Matter (automated)	%	0.1	MCERTS	6.4	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.46	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.28	-
Acenaphthene	mg/kg	0.05	MCERTS	0.26	-
Fluorene	mg/kg	0.05	MCERTS	0.4	-
Phenanthrene	mg/kg	0.05	MCERTS	2.9	-
Anthracene	mg/kg	0.05	MCERTS	0.8	-
Fluoranthene	mg/kg	0.05	MCERTS	3.7	-
Pyrene	mg/kg	0.05	MCERTS	3.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.8	-
Chrysene	mg/kg	0.05	MCERTS	2.2	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.1	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.95	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.7	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.2	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.46	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.5	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	23.8	-
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Analytical Report Number: 23-66827
 Project / Site name: Whitburn
 Your Order No: 2205-JY-23-1757

Lab Sample Number				2867806	2867807
Sample Reference				TP207	TP208
Sample Number				None Supplied	None Supplied
Depth (m)				0.30	0.80
Date Sampled				02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.9	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	200	96
Lead (aqua regia extractable)	mg/kg	1	MCERTS	150	120
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	38
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	300	120

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	-
o-xylene	µg/kg	5	MCERTS	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 HS_ID_AL	mg/kg	0.02	NONE	< 0.020	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_ID_AL	mg/kg	0.02	NONE	< 0.020	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_ID_AL	mg/kg	0.05	NONE	< 0.050	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_ID_AL	mg/kg	1	MCERTS	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_ID_AL	mg/kg	2	MCERTS	12	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_ID_AL	mg/kg	8	MCERTS	40	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_ID_AL	mg/kg	8	MCERTS	290	-
TPH-CWG - Aliphatic > EC35 - EC44 EH_CU_ID_AL	mg/kg	8.4	NONE	270	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_ID_AL	mg/kg	10	NONE	350	-
TPH-CWG - Aliphatic (EC5 - EC44) EH_CU+HS_ID_AL	mg/kg	10	NONE	620	-

TPH-CWG - Aromatic >EC5 - EC7 HS_ID_AR	mg/kg	0.01	NONE	< 0.010	-
TPH-CWG - Aromatic >EC7 - EC8 HS_ID_AR	mg/kg	0.01	NONE	< 0.010	-
TPH-CWG - Aromatic >EC8 - EC10 HS_ID_AR	mg/kg	0.05	NONE	< 0.050	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_ID_AR	mg/kg	1	MCERTS	1.2	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_ID_AR	mg/kg	2	MCERTS	4.7	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_ID_AR	mg/kg	10	MCERTS	23	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_ID_AR	mg/kg	10	MCERTS	240	-
TPH-CWG - Aromatic > EC35 - EC44 EH_CU_ID_AR	mg/kg	8.4	NONE	360	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_ID_AR	mg/kg	10	NONE	270	-
TPH-CWG - Aromatic (EC5 - EC44) EH_CU+HS_ID_AR	mg/kg	10	NONE	630	-

Analytical Report Number: 23-66827
 Project / Site name: Whitburn
 Your Order No: 2205-JY-23-1757

Lab Sample Number				2867806	2867807
Sample Reference				TP207	TP208
Sample Number				None Supplied	None Supplied
Depth (m)				0.30	0.80
Date Sampled				02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
VOCs					
Chloromethane	µg/kg	5	ISO 17025	< 5.0	-
Chloroethane	µg/kg	5	NONE	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	-
1,1-dichloroethene	µg/kg	5	NONE	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	-
Trans 1,2-dichloroethylene	µg/kg	5	NONE	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-
1,1-dichloroethane	µg/kg	5	ISO 17025	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-
Chloroform	µg/kg	5	NONE	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-
1,2-dichloroethane	µg/kg	5	ISO 17025	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	-
Carbontetrachloride	µg/kg	5	NONE	< 5.0	-
1,2-dichloropropane	µg/kg	5	ISO 17025	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	-
Styrene	µg/kg	5	ISO 17025	< 5.0	-
Bromoform	µg/kg	5	NONE	< 5.0	-
o-xylene	µg/kg	5	MCERTS	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-
Bromobenzene	µg/kg	5	NONE	< 5.0	-
N-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-
Tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-
Sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-
1,3-dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-
P-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	-
1,4-dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-
1,2-dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-
Butylbenzene	µg/kg	5	NONE	< 5.0	-
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-

Analytical Report Number: 23-66827
 Project / Site name: Whitburn
 Your Order No: 2205-JY-23-1757

Lab Sample Number				2867806	2867807
Sample Reference				TP207	TP208
Sample Number				None Supplied	None Supplied
Depth (m)				0.30	0.80
Date Sampled				02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-

SVOCs

Aniline	mg/kg	0.1	NONE	1.7	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	0.46	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	0.5	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	0.28	-
Acenaphthene	mg/kg	0.05	MCERTS	0.26	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	0.4	-
Azobenzene	mg/kg	0.3	NONE	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	2.9	-
Anthracene	mg/kg	0.05	MCERTS	0.8	-
Carbazole	mg/kg	0.3	MCERTS	0.5	-
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2	-
Anthraquinone	mg/kg	0.3	NONE	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	3.7	-
Pyrene	mg/kg	0.05	MCERTS	3.3	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.8	-
Chrysene	mg/kg	0.05	MCERTS	2.2	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.1	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.95	-

Analytical Report Number: 23-66827
 Project / Site name: Whitburn
 Your Order No: 2205-JY-23-1757

Lab Sample Number				2867806	2867807
Sample Reference				TP207	TP208
Sample Number				None Supplied	None Supplied
Depth (m)				0.30	0.80
Date Sampled				02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.7	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.2	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.46	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.5	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-66827
Project / Site name: Whitburn
Your Order No: 2205-JY-23-1757

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2867806	TP207	0.30	129	Loose Fibrous Debris	Chrysotile	0.015	0.015

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Analytical Report Number: 23-66827
Project / Site name: Whitburn

Your Order No: 2205-JY-23-1757

Lab Sample Number				2867808	2867809
Sample Reference				TP202	TP207
Sample Number				None Supplied	None Supplied
Depth (m)				0.50	0.30
Date Sampled				02/11/2023	02/11/2023
Time Taken				None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH (automated)	pH Units	N/A	ISO 17025	7.7	11
Sulphate as SO ₄	mg/l	0.1	ISO 17025	429	9.5

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1	ISO 17025	3.2	4.1
Boron (dissolved)	µg/l	10	ISO 17025	35	20
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	0.09
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4	12
Copper (dissolved)	µg/l	0.7	ISO 17025	6.5	89
Lead (dissolved)	µg/l	1	ISO 17025	2	11
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	1	1.6
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0
Zinc (dissolved)	µg/l	0.4	ISO 17025	13	14

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-66827

Project / Site name: Whitburn

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2867801	TP202	None Supplied	0.5	Brown clay with gravel.
2867802	TP202	None Supplied	1	Brown clay with gravel.
2867803	TP203	None Supplied	0.2	Brown gravelly loam.
2867804	TP204	None Supplied	0.4	Brown clay and loam with gravel.
2867805	TP205	None Supplied	0.2	Brown gravelly loam.
2867806	TP207	None Supplied	0.3	Brown gravelly loam.
2867807	TP208	None Supplied	0.8	Brown loam and sand with gravel and vegetation.

Analytical Report Number : 23-66827

Project / Site name: Whitburn

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Boron in leachate	Determination of boron in leachate. Sample acidified and followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. Refer to CoA for analyte specific accreditation.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate (automated)	Determination of pH in leachate by electrometric measurement.	In house method.	L099B	W	ISO 17025
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS. Refer to CoA for analyte specific accreditation.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260. Refer to CoA for analyte specific accreditation	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. Refer to CoA for band specific accreditation.	In-house method with silica gel split/clean up.	L088/76-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025

Analytical Report Number : 23-66827

Project / Site name: Whitburn

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil"	L039-PL	W	ISO 17025
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser.	L080-PL	W	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Waste Classification Report

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

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



1FIDN-G4STE-9KXCQ

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

Job name

23-1757 Whitburn

Description/Comments

Site Investigation

Project

23-1757

Site

Whitburn

Classified by

Name: **Jonathan Malley**
Date: **20 Nov 2023 11:24 GMT**
Telephone: **0191 3896200**

Company: **ERGO Environmental**
Maling Exchange, Hoults Yard, Walker Rd,
Newcastle upon Tyne, NE6 2HL

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

HazWasteOnline™ Certification:

CERTIFIED

Course
Hazardous Waste Classification
Most recent 3 year Refresher

Date
04 Jun 2020
04 Apr 2023

Next 3 year Refresher due by Apr 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

Land at Whitburn Lodge, Mill Lane

Post Code **SR6 7BF**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Assessment of Site Investigation Data for characterisation

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

Assessment of Site Investigation Data for characterisation

Description of the waste

Made Ground and Natural Drift deposits.

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS106 0.20	0.20	Non Hazardous	HP 7, HP 11	3
2	TP102A 0.20	0.20	Hazardous		9
3	TP102A 1.50	1.50	Non Hazardous		15
4	TP101A 0.50	0.50	Non Hazardous		18
5	TP103 0.80	0.80	Non Hazardous		22
6	TP104 0.20	0.20	Non Hazardous		28
7	TP106 1.00	1.00	Non Hazardous		31
8	TP109 1.20	1.20	Non Hazardous		33
9	TP110 0.20	0.20	Non Hazardous		35
10	SA101 0.40	0.40	Non Hazardous		41
11	WS111 0.20	0.20	Non Hazardous		47
12	WS112 0.20	0.20	Non Hazardous		49
13	WS114 0.20	0.20	Non Hazardous		51
14	WS115 0.20	0.20	Non Hazardous		53
15	WS101 1.00	1.00	Non Hazardous		55
16	WS104 0.50	0.50	Non Hazardous		57
17	TP104 0.70	0.70	Non Hazardous		59
18	Core 1		Non Hazardous		61
19	Core 2		Non Hazardous		63
20	Core 3		Non Hazardous		65
21	Core 4		Non Hazardous		67
22	TP202 0.50	0.50	Non Hazardous		69
23	TP202 1.00	1.00	Non Hazardous		72
24	TP203 0.20	0.20	Non Hazardous		75
25	TP204 0.40	0.40	Non Hazardous		77
26	TP205 0.20	0.20	Non Hazardous		79
27	TP207 0.30	0.30	Hazardous	HP 7, HP 11	81
28	TP208 0.80	0.80	Non Hazardous		84

Related documents

#	Name	Description
1	22-49251_HWOL_Results.hwol	.hwol file used to create the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Jonathan Malley

Created date: 20 Nov 2023 11:24 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	86
Appendix B: Rationale for selection of metal species	90
Appendix C: Version	91

Classification of sample: WS106 0.20

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

Sample details

Sample name:	LoW Code:
WS106 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
5.1%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.1% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.9 mg/kg	1.32	8.646 mg/kg	0.000865 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14 mg/kg	1.462	20.462 mg/kg	0.00205 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				18 mg/kg	2.512	42.905 mg/kg	0.00429 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	36 mg/kg		34.164 mg/kg	0.00342 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				16 mg/kg	2.637	40.035 mg/kg	0.004 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				79 mg/kg	2.469	185.126 mg/kg	0.0185 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
13	benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
14	toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
15	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
16	xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	pH		PH		10.1 pH		10.1 pH	10.1 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %			<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
21	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluorene 201-695-5	86-73-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
23	phenanthrene 201-581-5	85-01-8			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
24	anthracene 204-371-1	120-12-7			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
25	fluoranthene 205-912-4	206-44-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
26	pyrene 204-927-3	129-00-0			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
28	chrysene 601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
32	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
35	phenol 604-001-00-2	203-632-7	108-95-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
36	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
37	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
38	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<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
	EU CLP index number	EC Number	CAS Number							
39	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
40	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
41	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
42	polychlorobiphenyls; PCB				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
43	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
44	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							
45	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							
46	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
47	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
48	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
49	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							
50	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
51	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							
52	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							
53	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
54	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
55	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							
56	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
57	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
58	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
59	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
60	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
61	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
62	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
63	chloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
64	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
65	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
66	dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							
67	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
	EU CLP index number	EC Number	CAS Number							
68	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
69	hexachlorobutadiene 201-765-5	87-68-3			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
70	4-isopropyltoluene 202-796-7	99-87-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
71	sec-butylbenzene 205-227-0	135-98-8			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	styrene 601-026-00-0	202-851-5	100-42-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	tert-butylbenzene 202-632-4	98-06-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	trichlorofluoromethane 200-892-3	75-69-4			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
79	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
80	aniline 612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
81	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
82	bis(2-chloroethyl) ether 603-029-00-2	203-870-1	111-44-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
83	hexachloroethane 200-666-4	67-72-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
84	nitrobenzene 609-003-00-7	202-716-0	98-95-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
85	3,5,5-trimethylcyclohex-2-enone; isophorone 606-012-00-8	201-126-0	78-59-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
86	2-nitrophenol 201-857-5	88-75-5			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
87	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7] 604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
88	bis(2-chloroethoxy)methane 203-920-2	111-91-1			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
89	2,4-dichlorophenol 604-011-00-7	204-429-6	120-83-2		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
90	4-chloroaniline 612-137-00-9	203-401-0	106-47-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
91	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol 604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
92	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
93	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
94	2-methyl naphthalene 202-078-3	91-57-6			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
95	2-chloronaphthalene 202-079-9	91-58-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
96	dimethyl phthalate 205-011-6	131-11-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
97	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
98	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
99	dibenzofuran 205-071-3	132-64-9			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
100	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
101	diethyl phthalate 201-550-6	84-66-2			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
102	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3] 612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
103	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
104	4-bromophenylphenylether 202-952-4	101-55-3			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
105	carbazole 201-696-0	86-74-8			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
106	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
107	anthraquinone 606-151-00-4	201-549-0	84-65-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
108	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
109	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]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
110	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3] 602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
111	cumene 601-024-00-X	202-704-5	98-82-8		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
112	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
Total:								0.0366 %		

Key

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

Classification of sample: TP102A 0.20

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

Sample details

Sample name:	LoW Code:
TP102A 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
5.8%	
(wet weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.139%)

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.: 0.139%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				8.3 mg/kg	1.32	10.323	mg/kg	0.00103 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	26.308	mg/kg	0.00263 %		
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724	mg/kg	<0.000272 %		<LOD
	024-017-00-8										
5	copper { copper sulphate }				37 mg/kg	2.512	87.543	mg/kg	0.00875 %	✓	
	029-004-00-0	231-847-6	7758-98-7								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	35 mg/kg		32.97	mg/kg	0.0033 %	✓	
	082-001-00-6										

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	080-002-00-6											
8	nickel { nickel sulfate }				22	mg/kg	2.637	54.643	mg/kg	0.00546 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				60	mg/kg	2.469	139.565	mg/kg	0.014 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	TPH (C6 to C40) petroleum group				1480	mg/kg		1394.16	mg/kg	0.139 %	✓	
			TPH									
12	confirm TPH has NOT arisen from diesel or petrol				☒							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
	006-007-00-5											
19	pH				8.3	pH		8.3	pH	8.3 pH		
			PH									
20	naphthalene				0.64	mg/kg		0.603	mg/kg	0.0000603 %	✓	
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8									
22	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9									
23	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7									
24	phenanthrene				0.82	mg/kg		0.772	mg/kg	0.0000772 %	✓	
		201-581-5	85-01-8									
25	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7									
26	fluoranthene				1	mg/kg		0.942	mg/kg	0.0000942 %	✓	
		205-912-4	206-44-0									
27	pyrene				1.6	mg/kg		1.507	mg/kg	0.000151 %	✓	
		204-927-3	129-00-0									
28	benzo[a]anthracene				0.36	mg/kg		0.339	mg/kg	0.0000339 %	✓	
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				0.63	mg/kg		0.593	mg/kg	0.0000593 %	✓	
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				0.38	mg/kg		0.358	mg/kg	0.0000358 %	✓	
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				0.35	mg/kg		0.33	mg/kg	0.000033 %	✓	
	601-036-00-5	205-916-6	207-08-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
32	benzo[a]pyrene; benzo[def]chrysene				0.35 mg/kg		0.33 mg/kg	0.000033 %	✓	
	601-032-00-3	200-028-5	50-32-8							
33	indeno[123-cd]pyrene				0.2 mg/kg		0.188 mg/kg	0.0000188 %	✓	
		205-893-2	193-39-5							
34	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
35	benzo[ghi]perylene				0.27 mg/kg		0.254 mg/kg	0.0000254 %	✓	
		205-883-8	191-24-2							
36	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
38	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
39	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
40	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
41	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
42	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
43	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
44	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							
45	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							
46	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
47	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
48	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
49	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							
50	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
51	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							
52	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							
53	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
54	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
55	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							
56	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
57	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
58	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
59	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
60	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
61	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2] 602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
62	chlorobenzene 602-033-00-1	203-628-5	108-90-7		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
63	chloroethane 602-009-00-0	200-830-5	75-00-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
64	chloroform; trichloromethane 602-006-00-4	200-663-8	67-66-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
65	chloromethane; methyl chloride 602-001-00-7	200-817-4	74-87-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
66	dibromochloromethane 204-704-0	124-48-1			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
67	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
68	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
69	hexachlorobutadiene 201-765-5	87-68-3			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
70	4-isopropyltoluene 202-796-7	99-87-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
71	sec-butylbenzene 205-227-0	135-98-8			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	styrene 601-026-00-0	202-851-5	100-42-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	tert-butylbenzene 202-632-4	98-06-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	trichlorofluoromethane 200-892-3	75-69-4			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
79	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
80	aniline 612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
81	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
82	bis(2-chloroethyl) ether 603-029-00-2	203-870-1	111-44-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
83	hexachloroethane 200-666-4	67-72-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
84	nitrobenzene 609-003-00-7	202-716-0	98-95-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
85	3,5,5-trimethylcyclohex-2-enone; isophorone 606-012-00-8	201-126-0	78-59-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
86	2-nitrophenol 201-857-5	88-75-5			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
87	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
88	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
89	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
90	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
91	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
92	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
93	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
94	2-methyl naphthalene	202-078-3	91-57-6		1.2 mg/kg		1.13	mg/kg	0.000113 %	✓	
95	2-chloronaphthalene	202-079-9	91-58-7		<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
96	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
97	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
98	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]	<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
99	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
100	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
101	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
102	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]	<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
103	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
104	4-bromophenylphenylether	202-952-4	101-55-3		<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
105	carbazole	201-696-0	86-74-8		<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
106	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.2 mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
107	anthraquinone	606-151-00-4	201-549-0	84-65-1	<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
108	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.3 mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
109	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]	<0.002 mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
110	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]					<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-026-00-3	208-750-2 [1]	540-59-0 [1]								
		205-859-7 [2]	156-59-2 [2]								
		205-860-2 [3]	156-60-5 [3]								
111	cumene					<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-024-00-X	202-704-5	98-82-8								
112	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]					<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]								
		202-423-8 [2]	95-48-7 [2]								
		203-398-6 [3]	106-44-5 [3]								
		215-293-2 [4]	1319-77-3 [4]								
Total:									0.177 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.139%)

Classification of sample: TP102A 1.50

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

Sample details

Sample name:	LoW Code:
TP102A 1.50	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
2	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
3	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
4	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
5	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
6	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
		215-535-7 [4]	1330-20-7 [4]							
7	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
8	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
9	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
10	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
11	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
12	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
13	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
14	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
15	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
17	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
18	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
19	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
20	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
21	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
22	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
23	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
24	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
25	1,2-dichlorobenzene; o-dichlorobenzene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
26	1,3-dichlorobenzene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
27	1,4-dichlorobenzene; p-dichlorobenzene				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
28	hexachlorobutadiene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-765-5	87-68-3							
29	1,2,4-trichlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
30	aniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-008-00-7	200-539-3	62-53-3							
31	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]							
32	bis(2-chloroethyl) ether				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
33	hexachloroethane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		200-666-4	67-72-1							
34	nitrobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
35	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
36	2-nitrophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		201-857-5	88-75-5							
37	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
38	bis(2-chloroethoxy)methane				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		203-920-2	111-91-1							
39	2,4-dichlorophenol				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
40	4-chloroaniline				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
42		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
43		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
44	●	2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
45	●	2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
46	●	dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
47		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
48		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1]	121-14-2 [1]									
			246-836-1 [2]	25321-14-6 [2]									
49	●	dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
50	●	4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
51	●	diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
52		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1]	88-74-4 [1]									
			202-729-1 [2]	99-09-2 [2]									
			202-810-1 [3]	100-01-6 [3]									
53		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
54	●	4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
55	●	carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
56		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
57		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
58		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
59		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-004-00-9	203-577-9 [1]	108-39-4 [1]									
			202-423-8 [2]	95-48-7 [2]									
			203-398-6 [3]	106-44-5 [3]									
			215-293-2 [4]	1319-77-3 [4]									
Total:									0.00285 %				

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)
- <LOD** Below limit of detection

Classification of sample: TP101A 0.50

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

Sample details

Sample name:	LoW Code:
TP101A 0.50	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 arsenic { arsenic trioxide }				13 mg/kg	1.32	14.761 mg/kg	0.00148 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	 cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
		215-160-9	1308-38-9							
4	 chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	 copper { copper sulphate }				54 mg/kg	2.512	116.643 mg/kg	0.0117 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	 lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	51 mg/kg		43.86 mg/kg	0.00439 %	✓	
	082-001-00-6									
7	 mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	 nickel { nickel sulfate }				35 mg/kg	2.637	79.364 mg/kg	0.00794 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	 selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	 zinc { zinc sulphate }				93 mg/kg	2.469	197.494 mg/kg	0.0197 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	 TPH (C6 to C40) petroleum group		TPH		15 mg/kg		12.9 mg/kg	0.00129 %	✓	
12	 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
	EU CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
19	pH				7.9 pH		7.9 pH	7.9 pH			
			PH								
20	naphthalene				0.83 mg/kg		0.714 mg/kg	0.0000714 %		✓	
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
22	acenaphthene				0.2 mg/kg		0.172 mg/kg	0.0000172 %		✓	
		201-469-6	83-32-9								
23	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
24	phenanthrene				1.5 mg/kg		1.29 mg/kg	0.000129 %		✓	
		201-581-5	85-01-8								
25	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
26	fluoranthene				1.3 mg/kg		1.118 mg/kg	0.000112 %		✓	
		205-912-4	206-44-0								
27	pyrene				1 mg/kg		0.86 mg/kg	0.000086 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				0.67 mg/kg		0.576 mg/kg	0.0000576 %		✓	
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				0.75 mg/kg		0.645 mg/kg	0.0000645 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				0.54 mg/kg		0.464 mg/kg	0.0000464 %		✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				0.42 mg/kg		0.361 mg/kg	0.0000361 %		✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				0.38 mg/kg		0.327 mg/kg	0.0000327 %		✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				0.2 mg/kg		0.172 mg/kg	0.0000172 %		✓	
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				0.28 mg/kg		0.241 mg/kg	0.0000241 %		✓	
		205-883-8	191-24-2								
36	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
37	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
38	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-008-00-5	200-262-8	56-23-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
39	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
40	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
41	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
42	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							
43	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							
44	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
45	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
46	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
47	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							
48	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
49	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							
50	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							
51	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
52	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
53	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							
54	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
55	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
56	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
57	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
58	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
59	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
60	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
61	chloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
62	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
63	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
64	dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							
65	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							
66	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
67	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
68	4-isopropyltoluene	202-796-7	99-87-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
69	sec-butylbenzene	205-227-0	135-98-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
70	styrene	601-026-00-0	202-851-5	100-42-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
71	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	tert-butylbenzene	202-632-4	98-06-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	trichlorofluoromethane	200-892-3	75-69-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	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]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
79	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
80	cumene	601-024-00-X	202-704-5	98-82-8	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
Total:								0.0516 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00129%)

Classification of sample: TP103 0.80

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

Sample details

Sample name:	LoW Code:
TP103 0.80	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)
0.80 m	
Moisture content:	
9.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10 mg/kg	1.32	11.949 mg/kg	0.00119 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %			<LOD
	024-017-00-8										
5	copper { copper sulphate }				71 mg/kg	2.512	161.389 mg/kg	0.0161 %	✓		
	029-004-00-0	231-847-6	7758-98-7								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	75 mg/kg		67.875 mg/kg	0.00679 %	✓		
	082-001-00-6										
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	080-002-00-6										
8	nickel { nickel sulfate }				23 mg/kg	2.637	54.883 mg/kg	0.00549 %	✓		
	028-009-00-5	232-104-9	7786-81-4								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				140 mg/kg	2.469	312.86 mg/kg	0.0313 %	✓		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	TPH (C6 to C40) petroleum group		TPH		68 mg/kg		61.54 mg/kg	0.00615 %	✓		
12	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
	EU CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.4 pH		8.4 pH	8.4 pH			
			PH								
19	naphthalene				0.65 mg/kg		0.588 mg/kg	0.0000588 %		✓	
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				0.73 mg/kg		0.661 mg/kg	0.0000661 %		✓	
		201-581-5	85-01-8								
24	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
25	fluoranthene				1.2 mg/kg		1.086 mg/kg	0.000109 %		✓	
		205-912-4	206-44-0								
26	pyrene				1.2 mg/kg		1.086 mg/kg	0.000109 %		✓	
		204-927-3	129-00-0								
27	benzo[a]anthracene				1.2 mg/kg		1.086 mg/kg	0.000109 %		✓	
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				1.1 mg/kg		0.996 mg/kg	0.0000996 %		✓	
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				1.7 mg/kg		1.539 mg/kg	0.000154 %		✓	
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				0.91 mg/kg		0.824 mg/kg	0.0000824 %		✓	
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				1.5 mg/kg		1.358 mg/kg	0.000136 %		✓	
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				0.96 mg/kg		0.869 mg/kg	0.0000869 %		✓	
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				0.27 mg/kg		0.244 mg/kg	0.0000244 %		✓	
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				1.4 mg/kg		1.267 mg/kg	0.000127 %		✓	
		205-883-8	191-24-2								
35	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
36	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
37	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
38	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
39	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-027-00-9	201-167-4	79-01-6								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
40	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
41	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
42	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							
43	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							
44	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
45	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
46	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
47	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							
48	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
49	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							
50	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							
51	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
52	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
53	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							
54	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
55	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
56	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
57	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
58	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
59	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
60	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
61	chloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
62	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
63	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
64	dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							
65	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							
66	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
67	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
68	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
69	sec-butylbenzene	205-227-0	135-98-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
70	styrene	601-026-00-0	202-851-5	100-42-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
71	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	tert-butylbenzene	202-632-4	98-06-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	trichlorofluoromethane	200-892-3	75-69-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	aniline	612-008-00-7	200-539-3	62-53-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
79	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
80	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
81	hexachloroethane	200-666-4	67-72-1		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
82	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
83	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
84	2-nitrophenol	201-857-5	88-75-5		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
85	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
86	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
87	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
88	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
89	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
90	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
91	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
92	2-methyl naphthalene	202-078-3	91-57-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
93	2-chloronaphthalene	202-079-9	91-58-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
94	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
95	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
96	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
97	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
98	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
99	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
100	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
101	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
102	4-bromophenylphenylether	202-952-4	101-55-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
103	carbazole	201-696-0	86-74-8		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
104	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
105	anthraquinone	606-151-00-4	201-549-0	84-65-1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
106	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
107	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]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
108	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
109	cumene	601-024-00-X	202-704-5	98-82-8	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
110	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %			<LOD
Total:									0.0711 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00615%)

Classification of sample: TP104 0.20

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

Sample details

Sample name:	LoW Code:
TP104 0.20	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)
0.20 m	
Moisture content:	
7.4%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.4% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				9.2 mg/kg	1.32	11.248 mg/kg	0.00112 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	19 mg/kg	0.0019 %		
			215-160-9	1308-38-9							
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
		024-017-00-8									
5		copper { copper sulphate }				37 mg/kg	2.512	86.056 mg/kg	0.00861 %	✓	
		029-004-00-0	231-847-6	7758-98-7							
6		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	74 mg/kg		68.524 mg/kg	0.00685 %	✓	
		082-001-00-6									
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		080-002-00-6									
8		nickel { nickel sulfate }				20 mg/kg	2.637	48.831 mg/kg	0.00488 %	✓	
		028-009-00-5	232-104-9	7786-81-4							
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
		034-002-00-8									
10		zinc { zinc sulphate }				150 mg/kg	2.469	342.985 mg/kg	0.0343 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11		TPH (C6 to C40) petroleum group		TPH		170 mg/kg		157.42 mg/kg	0.0157 %	✓	
12		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
	EU CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	pH				8.2 pH		8.2 pH	8.2 pH		
			PH							
19	naphthalene				0.54 mg/kg		0.5 mg/kg	0.00005 %	✓	
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				1.2 mg/kg		1.111 mg/kg	0.000111 %	✓	
		205-917-1	208-96-8							
21	acenaphthene				0.26 mg/kg		0.241 mg/kg	0.0000241 %	✓	
		201-469-6	83-32-9							
22	fluorene				0.86 mg/kg		0.796 mg/kg	0.0000796 %	✓	
		201-695-5	86-73-7							
23	phenanthrene				10 mg/kg		9.26 mg/kg	0.000926 %	✓	
		201-581-5	85-01-8							
24	anthracene				1.8 mg/kg		1.667 mg/kg	0.000167 %	✓	
		204-371-1	120-12-7							
25	fluoranthene				7.7 mg/kg		7.13 mg/kg	0.000713 %	✓	
		205-912-4	206-44-0							
26	pyrene				5.7 mg/kg		5.278 mg/kg	0.000528 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				3.7 mg/kg		3.426 mg/kg	0.000343 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				2.8 mg/kg		2.593 mg/kg	0.000259 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				3 mg/kg		2.778 mg/kg	0.000278 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				1.6 mg/kg		1.482 mg/kg	0.000148 %	✓	
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				2.4 mg/kg		2.222 mg/kg	0.000222 %	✓	
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				1.2 mg/kg		1.111 mg/kg	0.000111 %	✓	
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				0.48 mg/kg		0.444 mg/kg	0.0000444 %	✓	
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				1.4 mg/kg		1.296 mg/kg	0.00013 %	✓	
		205-883-8	191-24-2							
Total:								0.078 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0157%)

Classification of sample: TP106 1.00

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

Sample details

Sample name:	LoW Code:
TP106 1.00	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.6 mg/kg	1.32	7.581 mg/kg	0.000758 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.298 mg/kg	0.0000298 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				15 mg/kg	2.512	32.778 mg/kg	0.00328 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	24 mg/kg		20.88 mg/kg	0.00209 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				24 mg/kg	2.637	55.054 mg/kg	0.00551 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				59 mg/kg	2.469	126.749 mg/kg	0.0127 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	pH				7.8 pH		7.8 pH	7.8 pH		
12	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	• acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	• fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	• phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	• anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	• fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	• pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	• indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	• benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0278 %		

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: TP109 1.20

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

Sample details

Sample name:	LoW Code:
TP109 1.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				9 mg/kg	1.32	10.219 mg/kg	0.00102 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.4 mg/kg	1.142	0.393 mg/kg	0.0000393 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				31 mg/kg	1.462	45.308 mg/kg	0.00453 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				22 mg/kg	2.512	47.521 mg/kg	0.00475 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	36 mg/kg		30.96 mg/kg	0.0031 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				36 mg/kg	2.637	81.632 mg/kg	0.00816 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				94 mg/kg	2.469	199.618 mg/kg	0.02 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
16	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
17	pH		PH		8.1 pH		8.1 pH	8.1 pH			
18	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
19	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
20	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
21	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
22	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
23	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
24	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
25	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
26	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
27	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
28	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
29	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
30	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
31	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
32	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
33	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
Total:									0.0441 %		

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: TP110 0.20

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

Sample details

Sample name:	LoW Code:
TP110 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				21 mg/kg	1.32	24.677 mg/kg	0.00247 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				130 mg/kg	2.512	290.604 mg/kg	0.0291 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	360 mg/kg		320.4 mg/kg	0.032 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				41 mg/kg	2.637	96.213 mg/kg	0.00962 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				170 mg/kg	2.469	373.605 mg/kg	0.0374 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	TPH (C6 to C40) petroleum group		TPH		780 mg/kg		694.2 mg/kg	0.0694 %	✓	
12	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
	EU CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
19	pH				8.4 pH		8.4 pH	8.4 pH			
			PH								
20	naphthalene				1.3 mg/kg		1.157 mg/kg	0.000116 %		✓	
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				2.4 mg/kg		2.136 mg/kg	0.000214 %		✓	
		205-917-1	208-96-8								
22	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
23	fluorene				0.54 mg/kg		0.481 mg/kg	0.0000481 %		✓	
		201-695-5	86-73-7								
24	phenanthrene				4.6 mg/kg		4.094 mg/kg	0.000409 %		✓	
		201-581-5	85-01-8								
25	anthracene				2.2 mg/kg		1.958 mg/kg	0.000196 %		✓	
		204-371-1	120-12-7								
26	fluoranthene				14 mg/kg		12.46 mg/kg	0.00125 %		✓	
		205-912-4	206-44-0								
27	pyrene				14 mg/kg		12.46 mg/kg	0.00125 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				9.8 mg/kg		8.722 mg/kg	0.000872 %		✓	
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				8.7 mg/kg		7.743 mg/kg	0.000774 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				7.7 mg/kg		6.853 mg/kg	0.000685 %		✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				7.8 mg/kg		6.942 mg/kg	0.000694 %		✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				8.5 mg/kg		7.565 mg/kg	0.000757 %		✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				6.3 mg/kg		5.607 mg/kg	0.000561 %		✓	
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				1.7 mg/kg		1.513 mg/kg	0.000151 %		✓	
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				8.2 mg/kg		7.298 mg/kg	0.00073 %		✓	
		205-883-8	191-24-2								
36	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-028-00-4	204-825-9	127-18-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
39	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
40	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
41	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
42	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
43	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
44	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							
45	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							
46	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
47	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
48	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
49	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							
50	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
51	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							
52	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							
53	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
54	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
55	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							
56	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
57	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
58	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
59	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
60	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
61	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
62	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
63	chloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
64	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
65	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
66	dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							
67	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
	EU CLP index number	EC Number	CAS Number							
68	dibromomethane 602-003-00-8	200-824-2	74-95-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
69	hexachlorobutadiene 201-765-5	87-68-3			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
70	4-isopropyltoluene 202-796-7	99-87-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
71	sec-butylbenzene 205-227-0	135-98-8			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	styrene 601-026-00-0	202-851-5	100-42-5		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	trans-1,3-dichloropropene 431-460-4	10061-02-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	tert-butylbenzene 202-632-4	98-06-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	bromoform; tribromomethane 602-007-00-X	200-854-6	75-25-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	1,2,4-trichlorobenzene 602-087-00-6	204-428-0	120-82-1		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	1,1,1,2-tetrachloroethane 211-135-1	630-20-6			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	trichlorofluoromethane 200-892-3	75-69-4			<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
79	mesitylene; 1,3,5-trimethylbenzene 601-025-00-5	203-604-4	108-67-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
80	aniline 612-008-00-7	200-539-3	62-53-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
81	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4] 604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
82	bis(2-chloroethyl) ether 603-029-00-2	203-870-1	111-44-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
83	hexachloroethane 200-666-4	67-72-1			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
84	nitrobenzene 609-003-00-7	202-716-0	98-95-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
85	3,5,5-trimethylcyclohex-2-enone; isophorone 606-012-00-8	201-126-0	78-59-1		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
86	2-nitrophenol 201-857-5	88-75-5			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
87	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7] 604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
88	bis(2-chloroethoxy)methane 203-920-2	111-91-1			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
89	2,4-dichlorophenol 604-011-00-7	204-429-6	120-83-2		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
90	4-chloroaniline 612-137-00-9	203-401-0	106-47-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
91	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol 604-014-00-3	200-431-6	59-50-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
92	2,4,6-trichlorophenol 604-018-00-5	201-795-9	88-06-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
93	2,4,5-trichlorophenol 604-017-00-X	202-467-8	95-95-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
94	2-methyl naphthalene 202-078-3	91-57-6			1.7 mg/kg		1.513 mg/kg	0.000151 %	✓	
95	2-chloronaphthalene 202-079-9	91-58-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
96	dimethyl phthalate 205-011-6	131-11-3			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
97	2,6-dinitrotoluene 609-049-00-8	210-106-0	606-20-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
98	2,4-dinitrotoluene; [1] dinitrotoluene [2] 609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
99	dibenzofuran 205-071-3	132-64-9			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
100	4-chlorophenylphenylether 230-281-7	7005-72-3			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
101	diethyl phthalate 201-550-6	84-66-2			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
102	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3] 612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
103	azobenzene 611-001-00-6	203-102-5	103-33-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
104	4-bromophenylphenylether 202-952-4	101-55-3			<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
105	carbazole 201-696-0	86-74-8			<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
106	dibutyl phthalate; DBP 607-318-00-4	201-557-4	84-74-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
107	anthraquinone 606-151-00-4	201-549-0	84-65-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
108	BBP; benzyl butyl phthalate 607-430-00-3	201-622-7	85-68-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
109	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]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
110	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3] 602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
111	cumene 601-024-00-X	202-704-5	98-82-8		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
112	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4] 604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
Total:								0.193 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0694%)

Classification of sample: SA101 0.40

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

Sample details

Sample name:	LoW Code:
SA101 0.40	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				17 mg/kg	1.32	19.977 mg/kg	0.002 %		✓	
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26 mg/kg	1.462	38 mg/kg	0.0038 %			
			215-160-9	1308-38-9								
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %			<LOD
		024-017-00-8										
5		copper { copper sulphate }				340 mg/kg	2.512	760.041 mg/kg	0.076 %		✓	
		029-004-00-0	231-847-6	7758-98-7								
6		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	320 mg/kg		284.8 mg/kg	0.0285 %		✓	
		082-001-00-6										
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
		080-002-00-6										
8		nickel { nickel sulfate }				42 mg/kg	2.637	98.559 mg/kg	0.00986 %		✓	
		028-009-00-5	232-104-9	7786-81-4								
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8										
10		zinc { zinc sulphate }				190 mg/kg	2.469	417.558 mg/kg	0.0418 %		✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11		TPH (C6 to C40) petroleum group				242 mg/kg		215.38 mg/kg	0.0215 %		✓	
				TPH								
12		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
	EU CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				9.7 pH		9.7 pH	9.7 pH			
			PH								
19	naphthalene				0.57 mg/kg		0.507 mg/kg	0.0000507 %		✓	
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
21	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
23	phenanthrene				2.1 mg/kg		1.869 mg/kg	0.000187 %		✓	
		201-581-5	85-01-8								
24	anthracene				0.36 mg/kg		0.32 mg/kg	0.000032 %		✓	
		204-371-1	120-12-7								
25	fluoranthene				3.7 mg/kg		3.293 mg/kg	0.000329 %		✓	
		205-912-4	206-44-0								
26	pyrene				3 mg/kg		2.67 mg/kg	0.000267 %		✓	
		204-927-3	129-00-0								
27	benzo[a]anthracene				2.1 mg/kg		1.869 mg/kg	0.000187 %		✓	
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				1.6 mg/kg		1.424 mg/kg	0.000142 %		✓	
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				1.8 mg/kg		1.602 mg/kg	0.00016 %		✓	
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				1.1 mg/kg		0.979 mg/kg	0.0000979 %		✓	
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				1.5 mg/kg		1.335 mg/kg	0.000133 %		✓	
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				0.76 mg/kg		0.676 mg/kg	0.0000676 %		✓	
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				0.25 mg/kg		0.223 mg/kg	0.0000222 %		✓	
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				0.87 mg/kg		0.774 mg/kg	0.0000774 %		✓	
		205-883-8	191-24-2								
35	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
36	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
37	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
38	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
39	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-027-00-9	201-167-4	79-01-6								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
40	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
41	hexachlorobenzene				<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
42	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							
43	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							
44	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
45	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
46	1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-757-1	87-61-6							
47	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							
48	1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
49	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							
50	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							
51	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
52	1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-531-3	142-28-9							
53	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							
54	2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		209-832-0	594-20-7							
55	bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-856-7	75-27-4							
56	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
57	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
58	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
59	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-030-00-5	208-826-5 [1]	542-75-6 [1]							
		233-195-8 [2]	10061-01-5 [2]							
60	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
61	chloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
62	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
63	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
64	dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		204-704-0	124-48-1							
65	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							
66	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
67	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
68	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
69	sec-butylbenzene	205-227-0	135-98-8		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
70	styrene	601-026-00-0	202-851-5	100-42-5	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
71	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
72	tert-butylbenzene	202-632-4	98-06-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
73	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
74	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
75	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
76	trichlorofluoromethane	200-892-3	75-69-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
77	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
78	aniline	612-008-00-7	200-539-3	62-53-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
79	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
80	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
81	hexachloroethane	200-666-4	67-72-1		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
82	nitrobenzene	609-003-00-7	202-716-0	98-95-3	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
83	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
84	2-nitrophenol	201-857-5	88-75-5		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
85	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
86	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
87	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
88	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
89	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
90	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
91	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
92	2-methyl naphthalene	202-078-3	91-57-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
93	2-chloronaphthalene	202-079-9	91-58-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
94	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
95	2,6-dinitrotoluene	609-049-00-8	210-106-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
96	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
97	dibenzofuran	205-071-3	132-64-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
98	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
99	diethyl phthalate	201-550-6	84-66-2		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
100	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
101	azobenzene	611-001-00-6	203-102-5		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
102	4-bromophenylphenylether	202-952-4	101-55-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
103	carbazole	201-696-0	86-74-8		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
104	dibutyl phthalate; DBP	607-318-00-4	201-557-4		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
105	anthraquinone	606-151-00-4	201-549-0		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
106	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7		<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
107	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]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
108	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
109	cumene	601-024-00-X	202-704-5		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
110	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
Total:								0.186 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0215%)

Classification of sample: WS111 0.20

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

Sample details

Sample name:	LoW Code:
WS111 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				18 mg/kg	1.32	20.201 mg/kg	0.00202 %		✓	
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				22 mg/kg	1.462	32.154 mg/kg	0.00322 %			
			215-160-9	1308-38-9								
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %			<LOD
		024-017-00-8										
5		copper { copper sulphate }				46 mg/kg	2.512	98.208 mg/kg	0.00982 %		✓	
		029-004-00-0	231-847-6	7758-98-7								
6		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	130 mg/kg		110.5 mg/kg	0.0111 %		✓	
		082-001-00-6										
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
		080-002-00-6										
8		nickel { nickel sulfate }				28 mg/kg	2.637	62.753 mg/kg	0.00628 %		✓	
		028-009-00-5	232-104-9	7786-81-4								
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8										
10		zinc { zinc sulphate }				120 mg/kg	2.469	251.868 mg/kg	0.0252 %		✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11		pH				8.1 pH		8.1 pH	8.1 pH			
				PH								
12		naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		601-052-00-2	202-049-5	91-20-3								
13		acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
			205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	• acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	• fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	• phenanthrene	201-581-5	85-01-8		1.4 mg/kg		1.19 mg/kg	0.000119 %	✓	
17	• anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	• fluoranthene	205-912-4	206-44-0		1.5 mg/kg		1.275 mg/kg	0.000127 %	✓	
19	• pyrene	204-927-3	129-00-0		1.1 mg/kg		0.935 mg/kg	0.0000935 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		0.5 mg/kg		0.425 mg/kg	0.0000425 %	✓	
21	chrysene	601-048-00-0	205-923-4		0.62 mg/kg		0.527 mg/kg	0.0000527 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.72 mg/kg		0.612 mg/kg	0.0000612 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.35 mg/kg		0.298 mg/kg	0.0000298 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.43 mg/kg		0.366 mg/kg	0.0000366 %	✓	
25	• indeno[123-cd]pyrene	205-893-2	193-39-5		0.29 mg/kg		0.247 mg/kg	0.0000246 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	• benzo[ghi]perylene	205-883-8	191-24-2		0.32 mg/kg		0.272 mg/kg	0.0000272 %	✓	
Total:								0.0587 %		

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: WS112 0.20

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

Sample details

Sample name:	LoW Code:
WS112 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				4.2 mg/kg	1.32	5.129 mg/kg	0.000513 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8.4 mg/kg	1.462	12.277 mg/kg	0.00123 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				9.3 mg/kg	2.512	21.607 mg/kg	0.00216 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	11 mg/kg		10.175 mg/kg	0.00102 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				8.7 mg/kg	2.637	21.219 mg/kg	0.00212 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				37 mg/kg	2.469	84.512 mg/kg	0.00845 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
12	• pH		PH		8.7 pH		8.7 pH	8.7 pH		
13	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	• acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
15	• acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
16	• fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
17	• phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
18	• anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
19	• fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
20	• pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
21	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
22	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
23	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
24	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
25	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
26	• indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
27	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
28	• benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
29	• monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
Total:								0.0163 %		

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: WS114 0.20

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

Sample details

Sample name:	LoW Code:
WS114 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				17 mg/kg	1.32	19.977 mg/kg	0.002 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.712 mg/kg	0.0000712 %		✓	
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				26 mg/kg	1.462	38 mg/kg	0.0038 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %			<LOD
	024-017-00-8										
5	copper { copper sulphate }				55 mg/kg	2.512	122.948 mg/kg	0.0123 %		✓	
	029-004-00-0	231-847-6	7758-98-7								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	190 mg/kg		169.1 mg/kg	0.0169 %		✓	
	082-001-00-6										
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.6 mg/kg		0.534 mg/kg	0.0000534 %		✓	
	080-002-00-6										
8	nickel { nickel sulfate }				31 mg/kg	2.637	72.746 mg/kg	0.00727 %		✓	
	028-009-00-5	232-104-9	7786-81-4								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				180 mg/kg	2.469	395.581 mg/kg	0.0396 %		✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	pH				7.9 pH		7.9 pH	7.9 pH			
12	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
13	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	● acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	● fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	● phenanthrene	201-581-5	85-01-8		0.84 mg/kg		0.748 mg/kg	0.0000748 %	✓	
17	● anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	● fluoranthene	205-912-4	206-44-0		1.5 mg/kg		1.335 mg/kg	0.000133 %	✓	
19	● pyrene	204-927-3	129-00-0		1.1 mg/kg		0.979 mg/kg	0.0000979 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		0.8 mg/kg		0.712 mg/kg	0.0000712 %	✓	
21	chrysene	601-048-00-0	205-923-4		0.91 mg/kg		0.81 mg/kg	0.000081 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		1.1 mg/kg		0.979 mg/kg	0.0000979 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.61 mg/kg		0.543 mg/kg	0.0000543 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.67 mg/kg		0.596 mg/kg	0.0000596 %	✓	
25	● indeno[123-cd]pyrene	205-893-2	193-39-5		0.47 mg/kg		0.418 mg/kg	0.0000418 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	● benzo[ghi]perylene	205-883-8	191-24-2		0.54 mg/kg		0.481 mg/kg	0.0000481 %	✓	
Total:								0.0832 %		

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: WS115 0.20

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

Sample details

Sample name:	LoW Code:
WS115 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				19 mg/kg	1.32	21.323 mg/kg	0.00213 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.68 mg/kg	0.000068 %	✓		
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %			
			215-160-9	1308-38-9								
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD	
		024-017-00-8										
5		copper { copper sulphate }				71 mg/kg	2.512	151.581 mg/kg	0.0152 %	✓		
		029-004-00-0	231-847-6	7758-98-7								
6		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	250 mg/kg		212.5 mg/kg	0.0213 %	✓		
		082-001-00-6										
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	0.6 mg/kg		0.51 mg/kg	0.000051 %	✓		
		080-002-00-6										
8		nickel { nickel sulfate }				28 mg/kg	2.637	62.753 mg/kg	0.00628 %	✓		
		028-009-00-5	232-104-9	7786-81-4								
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD	
		034-002-00-8										
10		zinc { zinc sulphate }				190 mg/kg	2.469	398.791 mg/kg	0.0399 %	✓		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11		pH				7.9 pH		7.9 pH	7.9 pH			
				PH								
12		naphthalene				0.45 mg/kg		0.383 mg/kg	0.0000383 %	✓		
		601-052-00-2	202-049-5	91-20-3								
13		acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD	
			205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	• acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	• fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	• phenanthrene	201-581-5	85-01-8		0.67 mg/kg		0.57 mg/kg	0.000057 %	✓	
17	• anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	• fluoranthene	205-912-4	206-44-0		1 mg/kg		0.85 mg/kg	0.000085 %	✓	
19	• pyrene	204-927-3	129-00-0		0.8 mg/kg		0.68 mg/kg	0.000068 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		0.73 mg/kg		0.62 mg/kg	0.000062 %	✓	
21	chrysene	601-048-00-0	205-923-4		0.56 mg/kg		0.476 mg/kg	0.0000476 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.67 mg/kg		0.57 mg/kg	0.000057 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.49 mg/kg		0.417 mg/kg	0.0000416 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.5 mg/kg		0.425 mg/kg	0.0000425 %	✓	
25	• indeno[123-cd]pyrene	205-893-2	193-39-5		0.3 mg/kg		0.255 mg/kg	0.0000255 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	• benzo[ghi]perylene	205-883-8	191-24-2		0.35 mg/kg		0.298 mg/kg	0.0000298 %	✓	
Total:								0.0892 %		

Key

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

Classification of sample: WS101 1.00

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

Sample details

Sample name:	LoW Code:
WS101 1.00	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.5 mg/kg	1.32	9.652 mg/kg	0.000965 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.4 mg/kg	1.142	0.393 mg/kg	0.0000393 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				25 mg/kg	2.512	54.002 mg/kg	0.0054 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	53 mg/kg		45.58 mg/kg	0.00456 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				18 mg/kg	2.637	40.816 mg/kg	0.00408 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				89 mg/kg	2.469	189 mg/kg	0.0189 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	pH				8 pH		8 pH	8pH		
12	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	• acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	• fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	• phenanthrene	201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
17	• anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	• fluoranthene	205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
19	• pyrene	204-927-3	129-00-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	• indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	• benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.037 %		

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: WS104 0.50

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

Sample details

Sample name:	LoW Code:
WS104 0.50	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				19 mg/kg	1.32	22.578 mg/kg	0.00226 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				29 mg/kg	1.462	42.385 mg/kg	0.00424 %		
			215-160-9	1308-38-9							
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
		024-017-00-8									
5		copper { copper sulphate }				70 mg/kg	2.512	158.237 mg/kg	0.0158 %	✓	
		029-004-00-0	231-847-6	7758-98-7							
6		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	140 mg/kg		126 mg/kg	0.0126 %	✓	
		082-001-00-6									
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		080-002-00-6									
8		nickel { nickel sulfate }				42 mg/kg	2.637	99.667 mg/kg	0.00997 %	✓	
		028-009-00-5	232-104-9	7786-81-4							
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
		034-002-00-8									
10		zinc { zinc sulphate }				79 mg/kg	2.469	175.567 mg/kg	0.0176 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11		pH				7.7 pH		7.7 pH	7.7 pH		
				PH							
12		naphthalene				0.98 mg/kg		0.882 mg/kg	0.0000882 %	✓	
		601-052-00-2	202-049-5	91-20-3							
13		acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	● acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	● fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	● phenanthrene	201-581-5	85-01-8		0.67 mg/kg		0.603 mg/kg	0.0000603 %	✓	
17	● anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	● fluoranthene	205-912-4	206-44-0		0.56 mg/kg		0.504 mg/kg	0.0000504 %	✓	
19	● pyrene	204-927-3	129-00-0		0.53 mg/kg		0.477 mg/kg	0.0000477 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		0.35 mg/kg		0.315 mg/kg	0.0000315 %	✓	
21	chrysene	601-048-00-0	205-923-4		0.39 mg/kg		0.351 mg/kg	0.0000351 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.26 mg/kg		0.234 mg/kg	0.0000234 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.21 mg/kg		0.189 mg/kg	0.0000189 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.22 mg/kg		0.198 mg/kg	0.0000198 %	✓	
25	● indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	● benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0633 %		

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: TP104 0.70

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

Sample details

Sample name:	LoW Code:
TP104 0.70	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.3%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.3% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.7 mg/kg	1.32	6.976 mg/kg	0.000698 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	19 mg/kg	0.0019 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				15 mg/kg	2.512	34.925 mg/kg	0.00349 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	18 mg/kg		16.686 mg/kg	0.00167 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				14 mg/kg	2.637	34.219 mg/kg	0.00342 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				53 mg/kg	2.469	121.319 mg/kg	0.0121 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	pH				8.3 pH		8.3 pH	8.3 pH		
12	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
14	acenaphthene	201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
15	fluorene	201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16	phenanthrene	201-581-5	85-01-8		0.27 mg/kg		0.25 mg/kg	0.000025 %	✓	
17	anthracene	204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
18	fluoranthene	205-912-4	206-44-0		0.39 mg/kg		0.362 mg/kg	0.0000362 %	✓	
19	pyrene	204-927-3	129-00-0		0.33 mg/kg		0.306 mg/kg	0.0000306 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
21	chrysene	601-048-00-0	205-923-4		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0239 %		

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: Core 1

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

Sample details

Sample name:	LoW Code:
Core 1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.04% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 0.04% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
4	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
5	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
6	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
7	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
8	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
9	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
11	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
12	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
13	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
14	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
15	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
16	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00008 %		

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)
<LOD	Below limit of detection

Classification of sample: Core 2

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

Sample details

Sample name:	LoW Code:
Core 2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.06% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 0.06% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
4	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
5	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
6	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
7	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
8	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
9	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
11	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
12	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
13	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
14	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
15	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
16	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00008 %		

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)
<LOD	Below limit of detection

Classification of sample: Core 3

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

Sample details

Sample name:	LoW Code:
Core 3	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.07% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 0.07% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
4	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
5	phenanthrene				0.49 mg/kg		0.49 mg/kg	0.000049 %	✓	
		201-581-5	85-01-8							
6	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
7	fluoranthene				1.2 mg/kg		1.199 mg/kg	0.00012 %	✓	
		205-912-4	206-44-0							
8	pyrene				1.4 mg/kg		1.399 mg/kg	0.00014 %	✓	
		204-927-3	129-00-0							
9	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
11	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
12	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
13	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
14	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
15	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
16	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00037 %		

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)
<LOD	Below limit of detection

Classification of sample: Core 4

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

Sample details

Sample name:	LoW Code:
Core 4	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.05% (wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 0.05% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
3	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
4	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
5	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
6	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
7	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
8	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
9	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
11	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
12	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
13	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
14	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
15	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
16	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.00008 %		

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)
<LOD	Below limit of detection

Classification of sample: TP202 0.50

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

Sample details

Sample name:	LoW Code:
TP202 0.50	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				14 mg/kg	1.32	16.266 mg/kg	0.00163 %		✓	
		033-003-00-0	215-481-4	1327-53-3								
2		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
		048-002-00-0	215-146-2	1306-19-0								
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %			
			215-160-9	1308-38-9								
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %			<LOD
		024-017-00-8										
5		copper { copper sulphate }				48 mg/kg	2.512	106.094 mg/kg	0.0106 %		✓	
		029-004-00-0	231-847-6	7758-98-7								
6		lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	44 mg/kg		38.72 mg/kg	0.00387 %		✓	
		082-001-00-6										
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
		080-002-00-6										
8		nickel { nickel sulfate }				31 mg/kg	2.637	71.929 mg/kg	0.00719 %		✓	
		028-009-00-5	232-104-9	7786-81-4								
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
		034-002-00-8										
10		zinc { zinc sulphate }				62 mg/kg	2.469	134.725 mg/kg	0.0135 %		✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11		TPH (C6 to C40) petroleum group				470 mg/kg		413.6 mg/kg	0.0414 %		✓	
				TPH								
12		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
	EU CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	pH		PH		8.4 pH		8.4 pH	8.4 pH		
19	naphthalene				1.5 mg/kg		1.32 mg/kg	0.000132 %	✓	
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				0.29 mg/kg		0.255 mg/kg	0.0000255 %	✓	
		205-917-1	208-96-8							
21	acenaphthene				0.2 mg/kg		0.176 mg/kg	0.0000176 %	✓	
		201-469-6	83-32-9							
22	fluorene				0.21 mg/kg		0.185 mg/kg	0.0000185 %	✓	
		201-695-5	86-73-7							
23	phenanthrene				1.6 mg/kg		1.408 mg/kg	0.000141 %	✓	
		201-581-5	85-01-8							
24	anthracene				0.33 mg/kg		0.29 mg/kg	0.000029 %	✓	
		204-371-1	120-12-7							
25	fluoranthene				1.2 mg/kg		1.056 mg/kg	0.000106 %	✓	
		205-912-4	206-44-0							
26	pyrene				1.1 mg/kg		0.968 mg/kg	0.0000968 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.74 mg/kg		0.651 mg/kg	0.0000651 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.93 mg/kg		0.818 mg/kg	0.0000818 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				0.89 mg/kg		0.783 mg/kg	0.0000783 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.32 mg/kg		0.282 mg/kg	0.0000282 %	✓	
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.66 mg/kg		0.581 mg/kg	0.0000581 %	✓	
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.46 mg/kg		0.405 mg/kg	0.0000405 %	✓	
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.63 mg/kg		0.554 mg/kg	0.0000554 %	✓	
		205-883-8	191-24-2							
Total:								0.0854 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0414%)

Classification of sample: TP202 1.00

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

Sample details

Sample name:	LoW Code:
TP202 1.00	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00 m	
Moisture content:	
8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				9.8 mg/kg	1.32	11.904 mg/kg	0.00119 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %			
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %			<LOD
	024-017-00-8										
5	copper { copper sulphate }				29 mg/kg	2.512	67.012 mg/kg	0.0067 %		✓	
	029-004-00-0	231-847-6	7758-98-7								
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	28 mg/kg		25.76 mg/kg	0.00258 %		✓	
	082-001-00-6										
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %			<LOD
	080-002-00-6										
8	nickel { nickel sulfate }				20 mg/kg	2.637	48.515 mg/kg	0.00485 %		✓	
	028-009-00-5	232-104-9	7786-81-4								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %			<LOD
	034-002-00-8										
10	zinc { zinc sulphate }				50 mg/kg	2.469	113.588 mg/kg	0.0114 %		✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
11	TPH (C6 to C40) petroleum group		TPH		171 mg/kg		157.32 mg/kg	0.0157 %		✓	
12	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
	EU CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]								
18	pH				8.3 pH		8.3 pH	8.3 pH			
			PH								
19	naphthalene				1.1 mg/kg		1.012 mg/kg	0.000101 %		✓	
	601-052-00-2	202-049-5	91-20-3								
20	acenaphthylene				0.64 mg/kg		0.589 mg/kg	0.0000589 %		✓	
		205-917-1	208-96-8								
21	acenaphthene				0.13 mg/kg		0.12 mg/kg	0.000012 %		✓	
		201-469-6	83-32-9								
22	fluorene				0.51 mg/kg		0.469 mg/kg	0.0000469 %		✓	
		201-695-5	86-73-7								
23	phenanthrene				2.2 mg/kg		2.024 mg/kg	0.000202 %		✓	
		201-581-5	85-01-8								
24	anthracene				3.3 mg/kg		3.036 mg/kg	0.000304 %		✓	
		204-371-1	120-12-7								
25	fluoranthene				8.8 mg/kg		8.096 mg/kg	0.00081 %		✓	
		205-912-4	206-44-0								
26	pyrene				9.2 mg/kg		8.464 mg/kg	0.000846 %		✓	
		204-927-3	129-00-0								
27	benzo[a]anthracene				5.5 mg/kg		5.06 mg/kg	0.000506 %		✓	
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				7 mg/kg		6.44 mg/kg	0.000644 %		✓	
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				5.9 mg/kg		5.428 mg/kg	0.000543 %		✓	
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				2.6 mg/kg		2.392 mg/kg	0.000239 %		✓	
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				4.8 mg/kg		4.416 mg/kg	0.000442 %		✓	
	601-032-00-3	200-028-5	50-32-8								
32	indeno[123-cd]pyrene				2.8 mg/kg		2.576 mg/kg	0.000258 %		✓	
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				0.96 mg/kg		0.883 mg/kg	0.0000883 %		✓	
	601-041-00-2	200-181-8	53-70-3								
34	benzo[ghi]perylene				3 mg/kg		2.76 mg/kg	0.000276 %		✓	
		205-883-8	191-24-2								
Total:									0.0534 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0157%)

Classification of sample: TP203 0.20

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

Sample details

Sample name:	LoW Code:
TP203 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.9%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.9% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				2.9 mg/kg		2.671 mg/kg	0.000267 %	✓	
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				0.48 mg/kg		0.442 mg/kg	0.0000442 %	✓	
		205-917-1	208-96-8							
3	acenaphthene				1.5 mg/kg		1.381 mg/kg	0.000138 %	✓	
		201-469-6	83-32-9							
4	fluorene				2.7 mg/kg		2.487 mg/kg	0.000249 %	✓	
		201-695-5	86-73-7							
5	phenanthrene				26 mg/kg		23.946 mg/kg	0.00239 %	✓	
		201-581-5	85-01-8							
6	anthracene				8.7 mg/kg		8.013 mg/kg	0.000801 %	✓	
		204-371-1	120-12-7							
7	fluoranthene				29 mg/kg		26.709 mg/kg	0.00267 %	✓	
		205-912-4	206-44-0							
8	pyrene				25 mg/kg		23.025 mg/kg	0.0023 %	✓	
		204-927-3	129-00-0							
9	benzo[a]anthracene				13 mg/kg		11.973 mg/kg	0.0012 %	✓	
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				13 mg/kg		11.973 mg/kg	0.0012 %	✓	
	601-048-00-0	205-923-4	218-01-9							
11	benzo[b]fluoranthene				14 mg/kg		12.894 mg/kg	0.00129 %	✓	
	601-034-00-4	205-911-9	205-99-2							
12	benzo[k]fluoranthene				4.1 mg/kg		3.776 mg/kg	0.000378 %	✓	
	601-036-00-5	205-916-6	207-08-9							
13	benzo[a]pyrene; benzo[def]chrysene				12 mg/kg		11.052 mg/kg	0.00111 %	✓	
	601-032-00-3	200-028-5	50-32-8							
14	indeno[123-cd]pyrene				6.7 mg/kg		6.171 mg/kg	0.000617 %	✓	
		205-893-2	193-39-5							
15	dibenz[a,h]anthracene				1.9 mg/kg		1.75 mg/kg	0.000175 %	✓	
	601-041-00-2	200-181-8	53-70-3							
16	benzo[ghi]perylene				8.3 mg/kg		7.644 mg/kg	0.000764 %	✓	
		205-883-8	191-24-2							
Total:								0.0156 %		

Key

- | | |
|-------------|---|
| <div></div> | User supplied data |
| <div></div> | Determinand defined or amended by HazWasteOnline (see Appendix A) |

Classification of sample: TP204 0.40

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

Sample details

Sample name:	LoW Code:
TP204 0.40	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				31 mg/kg	1.32	35.2 mg/kg	0.00352 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
	024-017-00-8									
5	copper { copper sulphate }				37 mg/kg	2.512	79.922 mg/kg	0.00799 %	✓	
	029-004-00-0	231-847-6	7758-98-7							
6	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	33 mg/kg		28.38 mg/kg	0.00284 %	✓	
	082-001-00-6									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
	080-002-00-6									
8	nickel { nickel sulfate }				9.8 mg/kg	2.637	22.222 mg/kg	0.00222 %	✓	
	028-009-00-5	232-104-9	7786-81-4							
9	selenium { selenium compounds with the exception of cadmium selenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
	034-002-00-8									
10	zinc { zinc sulphate }				14 mg/kg	2.469	29.73 mg/kg	0.00297 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11	TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
12	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
	EU CLP index number	EC Number	CAS Number							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
18	pH		PH		7.3 pH		7.3 pH	7.3 pH		
19	naphthalene				3.2 mg/kg		2.752 mg/kg	0.000275 %	✓	
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				1.9 mg/kg		1.634 mg/kg	0.000163 %	✓	
		201-581-5	85-01-8							
24	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				0.29 mg/kg		0.249 mg/kg	0.0000249 %	✓	
		205-912-4	206-44-0							
26	pyrene				0.23 mg/kg		0.198 mg/kg	0.0000198 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.11 mg/kg		0.0946 mg/kg	0.00000946 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.2 mg/kg		0.172 mg/kg	0.0000172 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				0.1 mg/kg		0.086 mg/kg	0.0000086 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.07 mg/kg		0.0602 mg/kg	0.00000602 %	✓	
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
Total:								0.0263 %		

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: TP205 0.20

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

Sample details

Sample name:	LoW Code:
TP205 0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(wet weight correction)	

Hazard properties

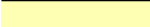
None identified

Determinands

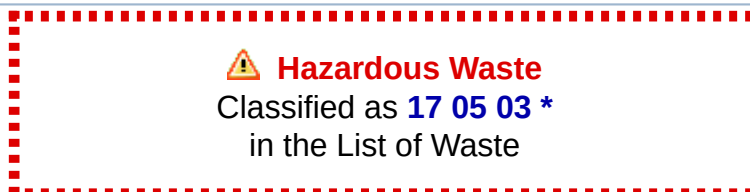
Moisture content: 10% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				12 mg/kg	1.32	14.26 mg/kg	0.00143 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.514 mg/kg	0.0000514 %	✓	
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				12 mg/kg	1.462	17.539 mg/kg	0.00175 %		
			215-160-9	1308-38-9							
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
		024-017-00-8									
5		copper { copper sulphate }				96 mg/kg	2.512	217.011 mg/kg	0.0217 %	✓	
		029-004-00-0	231-847-6	7758-98-7							
6		lead {  lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	100 mg/kg		90 mg/kg	0.009 %	✓	
		082-001-00-6									
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		080-002-00-6									
8		nickel { nickel sulfate }				25 mg/kg	2.637	59.325 mg/kg	0.00593 %	✓	
		028-009-00-5	232-104-9	7786-81-4							
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
		034-002-00-8									
10		zinc { zinc sulphate }				110 mg/kg	2.469	244.46 mg/kg	0.0244 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11		pH				10.6 pH		10.6 pH	10.6 pH		
				PH							
Total:									0.0648 %		

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: TP207 0.30



Sample details

Sample name:	LoW Code:	
TP207 0.30	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.30 m		
Moisture content:		
13%		
(wet weight correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.109%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.109%)

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3			11	mg/kg	1.32	12.636	mg/kg	0.00126 %	✓	
2		cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0										
3		chromium in chromium(III) compounds { chromium(III) oxide (worst case) } 										

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
7	mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
	080-002-00-6											
8	nickel { nickel sulfate }				21	mg/kg	2.637	48.172	mg/kg	0.00482 %	✓	
	028-009-00-5	232-104-9	7786-81-4									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
	034-002-00-8											
10	zinc { zinc sulphate }				300	mg/kg	2.469	644.486	mg/kg	0.0644 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
11	TPH (C6 to C40) petroleum group				1250	mg/kg		1087.5	mg/kg	0.109 %	✓	
			TPH									
12	confirm TPH has NOT arisen from diesel or petrol				☒							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				11.4	pH		11.4	pH	11.4 pH		
			PH									
19	naphthalene				0.46	mg/kg		0.4	mg/kg	0.00004 %	✓	
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				0.28	mg/kg		0.244	mg/kg	0.0000244 %	✓	
		205-917-1	208-96-8									
21	acenaphthene				0.26	mg/kg		0.226	mg/kg	0.0000226 %	✓	
		201-469-6	83-32-9									
22	fluorene				0.4	mg/kg		0.348	mg/kg	0.0000348 %	✓	
		201-695-5	86-73-7									
23	phenanthrene				2.9	mg/kg		2.523	mg/kg	0.000252 %	✓	
		201-581-5	85-01-8									
24	anthracene				0.8	mg/kg		0.696	mg/kg	0.0000696 %	✓	
		204-371-1	120-12-7									
25	fluoranthene				3.7	mg/kg		3.219	mg/kg	0.000322 %	✓	
		205-912-4	206-44-0									
26	pyrene				3.3	mg/kg		2.871	mg/kg	0.000287 %	✓	
		204-927-3	129-00-0									
27	benzo[a]anthracene				1.8	mg/kg		1.566	mg/kg	0.000157 %	✓	
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				2.2	mg/kg		1.914	mg/kg	0.000191 %	✓	
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				2.1	mg/kg		1.827	mg/kg	0.000183 %	✓	
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				0.95	mg/kg		0.826	mg/kg	0.0000826 %	✓	
	601-036-00-5	205-916-6	207-08-9									
31	benzo[a]pyrene; benzo[def]chrysene				1.7	mg/kg		1.479	mg/kg	0.000148 %	✓	
	601-032-00-3	200-028-5	50-32-8									
32	indeno[123-cd]pyrene				1.2	mg/kg		1.044	mg/kg	0.000104 %	✓	
		205-893-2	193-39-5									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
33	dibenz[a,h]anthracene				0.46 mg/kg		0.4 mg/kg	0.00004 %	✓	
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				1.5 mg/kg		1.305 mg/kg	0.000131 %	✓	
		205-883-8	191-24-2							
Total:								0.244 %		

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

Force this Hazardous property to non hazardous because Based on guidance within WM3

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.109%)

Classification of sample: TP208 0.80

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

Sample details

Sample name:	LoW Code:
TP208 0.80	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)
0.80 m	
Moisture content:	
16%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				14 mg/kg	1.32	15.527 mg/kg	0.00155 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
		048-002-00-0	215-146-2	1306-19-0							
3		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				17 mg/kg	1.462	24.846 mg/kg	0.00248 %		
			215-160-9	1308-38-9							
4		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.2 mg/kg	2.27	<2.724 mg/kg	<0.000272 %		<LOD
		024-017-00-8									
5		copper { copper sulphate }				96 mg/kg	2.512	202.544 mg/kg	0.0203 %	✓	
		029-004-00-0	231-847-6	7758-98-7							
6		 lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	120 mg/kg		100.8 mg/kg	0.0101 %	✓	
		082-001-00-6									
7		mercury { inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex }			1	<0.3 mg/kg		<0.3 mg/kg	<0.00003 %		<LOD
		080-002-00-6									
8		nickel { nickel sulfate }				38 mg/kg	2.637	84.163 mg/kg	0.00842 %	✓	
		028-009-00-5	232-104-9	7786-81-4							
9		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
		034-002-00-8									
10		zinc { zinc sulphate }				120 mg/kg	2.469	248.905 mg/kg	0.0249 %	✓	
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
11		pH				8.5 pH		8.5 pH	8.5 pH		
			PH								
Total:									0.0681 %		

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

Appendix A: Classifier defined and non GB MCL determinands

TPH (C6 to C40) petroleum group (CAS Number: TPH)

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

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

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

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

Data source date: 21 Aug 2015

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

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

▪ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

▪ **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

▪ **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

▪ **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

▪ **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

▪ **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

■ **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

GB MCL index number: 082-001-00-6

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

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

■ **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 May 2015

Hazard Statements: None.

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

GB MCL index number: 006-007-00-5

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

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane

Data source: N/a

Data source date: 14 Oct 2016

Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

▪ **monohydric phenols** (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)

Data source: CLP combined data

Data source date: 26 Mar 2019

Hazard Statements: Muta. 2; H341, Acute Tox. 3; H331, Acute Tox. 3; H311, Acute Tox. 3; H301, STOT RE 2; H373, Skin Corr. 1B; H314, Skin Corr. 1B; H314 >= 3 %, Skin Irrit. 2; H315 1 £ conc. < 3 %, Eye Irrit. 2; H319 1 £ conc. < 3 %, Aquatic Chronic 2; H411

▪ **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, STOT SE 3; H336, Aquatic Acute 1; H400, Aquatic Chronic 3; H410

▪ **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332, Flam. Liq. 2; H225, Flam. Liq. 3; H226, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335

▪ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H332, Flam. Liq. 2; H225, Acute Tox. 4; H302, Acute Tox. 4; H312, Eye Irrit. 2; H319

▪ **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye Dam. 1; H318, Eye Irrit. 2; H319, STOT SE 3; H335, Muta. 1B; H340, Carc. 1B; H350, Repr. 1A; H360

▪ **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

▪ **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 4; H312, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Acute Tox. 4; H332, STOT SE 3; H335, STOT SE 3; H336, Muta. 2; H341, Aquatic Chronic 2; H411

▪ **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226, Asp. Tox. 1; H304, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Aquatic Chronic 2; H411

▪ **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226, Asp. Tox. 1; H304, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Aquatic Chronic 2; H411

▪ **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226, Acute Tox. 3; H301, Asp. Tox. 1; H304, Acute Tox. 3; H311, Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319, Acute Tox. 4; H332, STOT SE 3; H335, Aquatic Chronic 1; H410

■ **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

■ **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

■ **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from C&L Inventory Database

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

Data source date: 02 Mar 2017

Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

■ **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4

Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

Worst case CLP species based on hazard statements/molecular weight.

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

Worst case CLP species based on hazard statements/molecular weight.

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

Worst case CLP species based on hazard statements/molecular weight.

copper {copper sulphate}

Worst case CLP species based on hazard statements/molecular weight.

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

Worst case CLP species based on hazard statements/molecular weight.

mercury {inorganic compounds of mercury with the exception of mercuric sulphide and those specified elsewhere in this Annex}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel sulfate}

Worst case CLP species based on hazard statements/molecular weight.

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

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc sulphate}

Worst case CLP species based on hazard statements/molecular weight.

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 CLP species based on hazard statements/molecular weight.

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2023.321.5813.10775 (17 Nov 2023)

HazWasteOnline Database: 2023.321.5813.10775 (17 Nov 2023)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

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

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

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

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

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

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

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

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

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

Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

**APPENDIX VI
ORIGIN OF TIER I GENERIC
ASSESSMENT CRITERIA**

CONSTITUENT	ORIGIN OF RISK ASSESSMENT VALUE
Arsenic	PC4SL - DEFRA
Cadmium	P4CSL - DEFRA
Chromium	P4CSL - DEFRA
Lead	P4CSL - DEFRA
Mercury	2014 LQM/CIEH S4ULs – Inorganic mercury
Nickel	2014 LQM/CIEH S4ULs
Selenium	2014 LQM/CIEH S4ULs
Copper	2014 LQM/CIEH S4ULs
Zinc	2014 LQM/CIEH S4ULs
Cyanide - Total	2014 LQM/CIEH S4ULs
Phenols - Total.	2014 LQM/CIEH S4ULs
Naphthalene	General Assessment Criteria (GAC) developed by CIEH / LQM Suitable 4 Use Levels with supporting data from SR3, SR7 and existing Tox report where applicable. 1% SOM
Acenaphthylene	
Acenaphthene	
Fluorene	
Phenanthrene	
Anthracene	
Fluoranthene	
Pyrene	
Benzo(a)Anthracene(	
Chrysene	
Benzo(b/k)Fluoranthene	
Benzo(a)Pyrene	
Indeno(123-cd)Pyrene	
Dibenzo(a,h)Anthracene	
Benzo(ghi)Perylene	
TPH C5-C6 (aliphatic)	
TPH C6-C8 (aliphatic)	
TPH C8-C10 (aliphatic)	
TPH C10-C12 (aliphatic)	
TPH C12-C16 (aromatic)	
TPH C16-C21 (aromatic)	
TPH C21-C35 (aromatic)	