

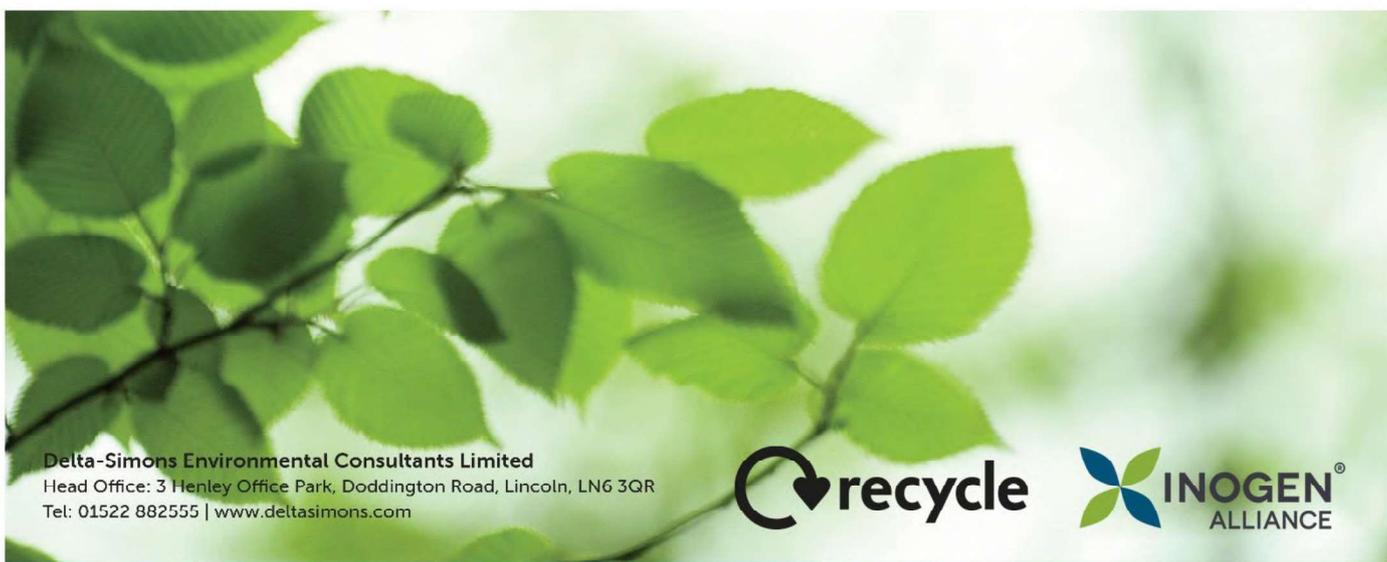


Site Investigation Report Newsome Mills, Huddersfield

Presented to: **Connect Housing Association Ltd and Collaborate
Living Ltd**

Issued: December 2021

Delta-Simons Project No: 21-1514.01



Delta-Simons Environmental Consultants Limited
Head Office: 3 Henley Office Park, Doddington Road, Lincoln, LN6 3QR
Tel: 01522 882555 | www.deltasimons.com



Report Details

Client	Connect Housing Association Ltd and Collaborate Living Ltd
Report Title	Site Investigation Report
Site Address	Newsome Mills, Ruth Street, Newsome, Huddersfield HD4 6JF
Report No.	21-1514.01
Delta-Simons Contact	Redacted

Quality Assurance

Issue No.	Status	Issue Date	Comments	Author	Technical Review	Authorised
1	Final	03/12/2021		Redacted	Redacted	Redacted
				Luke Barber Graduate Consultant	Lizzy Moorhouse Senior Consultant	David Jackson Principal Consultant

About Us

Delta-Simons is a trusted, multidisciplinary environmental consultancy, focused on delivering the best possible project outcomes for customers. Specialising in Environment, Health & Safety and Sustainability, Delta-Simons provide support and advice within the property development, asset management, corporate and industrial markets. Operating from across the UK we employ over 180 environmental professionals, bringing experience from across the private consultancy and public sector markets.

As part of Lucion Services, our combined team of 500 in the UK has a range of specialist skill sets in over 50 environmental consultancy specialisms including asbestos, hazardous materials, ecology, air and water services, geo-environmental and sustainability amongst others.



Delta-Simons is proud to be a founder member of the Inogen Environmental Alliance, enabling us to efficiently deliver customer projects worldwide by calling upon over 5000 resources in our global network of consultants, each committed to providing superior EH&S and sustainability consulting expertise to our customers. Through Inogen we can offer our Clients more consultants, with more expertise in more countries than traditional multinational consultancy.

Delta-Simons is a 'Beyond Net-Zero' company. We have set a Science-Based Target to reduce our Scope 1 and Scope 2 carbon emissions in line with the Paris Agreement and are committed to reducing Scope 3 emissions from our supply chain. Every year we offset our residual emissions by 150% through verified carbon removal projects linked to the UN Sustainable Development Goals. Our consultancy services to you are climate positive.

If you would like support in understanding your carbon footprint and playing your part in tackling the global climate crisis, please get in touch with your Delta-Simons contact above who will be happy to help.

Executive Summary

<p>Brief</p>	<p>Delta-Simons Environmental Consultants Limited (“Delta-Simons”) was instructed by Bright Young Consulting on behalf of Connect Housing Association Ltd and Collaborate Living Ltd (the “Client”) to prepare a Site Investigation Report for land off Ruth Street, Newsome, Huddersfield, HD4 6JF (the “Site”). An assessment of risks to human health from soils contaminants, preliminary assessment of relict foundations/basement associated with previously demolished building and preliminary waste classification exercise has been undertaken.</p> <p>The Site is currently vacant with access to the east of the Site along the public footpath. It is understood that the Site is to be developed for 42 residential units with associated gardens, roads and car parking spaces.</p>
<p>Site Setting</p>	<p>The Site currently comprises vacant land with sparse vegetation. There is a derelict structure associated with Newsome Mill in the south-east of the Site. The remnants of Newsome Mill and clocktower are present adjacent to the south of the Site. The majority of the Site was historically occupied by buildings associated with Newsome Mill.</p> <p>The Site topography is relatively flat however, there is a downhill slope adjacent to the north-western boundary.</p>
<p>Ground Conditions</p>	<p>The current ground investigation recorded Site-wide shallow Made Ground with localised deeper sections, especially in the west of the Site. Relict underground structures were observed within the Made Ground in three locations. Underlying the Made Ground is weathered Stanningley Rock Sandstone across the majority of the Site with weathered Lower Pennine Coal Measures recorded in three locations.</p>
<p>Land Contamination Assessment</p>	<p>Asbestos has been detected on Site in multiple locations within samples retrieved from the Made Ground.</p> <p>Elevated lead, arsenic, and polyaromatic hydrocarbons (PAHs) concentrations have been recorded in the Made Ground. Elevated lead has additionally been identified in Made Ground topsoil. The main exposure pathways are direct contact and ingestion via consumption of home grown produce. However, the contaminant linkages to future residents can be broken by hardstanding and the installation of a clean cover system in proposed garden and soft landscaped areas.</p>
<p>Waste Classification</p>	<p>The majority of Made Ground materials are likely to be classified as Non-Hazardous Waste based on the preliminary results, however, some material is likely to be classified as soil and stones containing hazardous substances. Waste Acceptance Criteria (WAC) analysis was undertaken on five samples of Made Ground, two of which are Made Ground topsoil. The results of four samples reported elevated concentrations of one contaminant which are likely to dictate that the materials may not be acceptable at a facility licenced to receive inert waste. All results do however meet thresholds for stable non-reactive facilities.</p> <p>The waste classification is preliminary and further consultation with waste facilities, WAC testing and further characterisation maybe required prior to off-Site management of any waste arisings or further testing prior to transfer to other receiving sites under a Materials Management Plan (MMP).</p>
<p>Data Gaps and Uncertainty</p>	<p>No proposed elevations or levels have been made available to Delta-Simons at time of writing this report.</p>

Recommendations	Based on the findings of this report, the following recommendations are made; <ul style="list-style-type: none">▲ An MMP would be required for any movement and reuse of Made Ground materials on Site;▲ Relict foundations, basements etc should be considered within the earthworks programme; and▲ A Remediation Strategy should be prepared for submission and approval by the Local Planning Authority including a clean cover system, ground gas protection measures and hotspot protocol.
This is intended as a summary only. Further detail and the limitations of the assessment are provided within the main body of the Report.	

Table of Contents

1.0	INTRODUCTION	1
1.1	Appointment.....	1
1.2	Context & Purpose.....	1
1.3	Scope of Works	1
1.4	Proposed Development	1
1.5	Existing Information	1
1.6	Limitations.....	2
1.7	Data Gaps and Uncertainty	2
2.0	SITE DETAILS	3
2.1	Site Setting	3
3.0	GROUND INVESTIGATION.....	5
3.1	Intrusive Investigation.....	5
3.2	Ground Investigation and Rationale	5
3.2.1	Intrusive Works	5
3.2.2	Rationale.....	5
3.3	Geotechnical Sampling and In-Situ Testing	5
3.3.1	Sampling.....	5
3.3.2	In-Situ Tests.....	5
3.4	Geotechnical Laboratory Testing.....	5
3.5	Environmental Sampling and Laboratory Analysis.....	5
4.0	GROUND SUMMARY.....	7
4.1	Introduction	7
4.2	Ground Summary	7
4.3	Groundwater	8
4.3.1	Strikes During Investigations	8
4.4	Visual and Olfactory Evidence of Contamination	8
4.5	Geochemical Testing	8
5.0	GEOTECHNICAL INFORMATION	9
5.1	Introduction	9
5.2	Excavations & Obstructions.....	9
6.0	GENERIC QUANTITATIVE RISK ASSESSMENT	10
6.1	Introduction	10
6.2	Human Health GQRA	10
6.2.1	Risks from Soil Sources	10
6.2.2	Soil Analysis Summary	13
6.2.3	Risks from Non-Aqueous Phase Liquids (NAPL).....	13
7.0	WASTE MANAGEMENT	14
7.1	Preliminary Waste Management	14
8.0	REVISED CONCEPTUAL SITE MODEL.....	16
9.0	CONCLUSIONS & RECOMMENDATIONS	17
9.1	Conclusions	17
9.2	Recommendations.....	17

DRAWINGS

Drawing 1 – Proposed Development

FIGURES

Figure 1 – Site Location Map

Figure 2 – Exploratory Trial Pit Plan

APPENDICES

Appendix A – Limitations

Appendix B – Borehole Logs

Appendix C – Soil Chemical Analysis Results

Appendix D – Geotechnical Analysis Results

Appendix E – Risk Definitions

Appendix F – HazWol Online Assessment

1.0 Introduction

1.1 Appointment

Delta-Simons Environmental Consultants Limited ("Delta-Simons") was instructed by Bright Young Consulting on behalf of Connect Housing Association Ltd and Collaborate Living Ltd (the "Client") to prepare a Site Investigation Report for land off Ruth Street, Newsome, Huddersfield, HD4 6JF (the "Site").

1.2 Context & Purpose

Whilst no final proposed ground levels have been made available to Delta-Simons, it is anticipated that a cut/fill scheme will be required to form a suitable development platform as part of the enabling works. This may require removal/reuse on Site of soils, Made Ground or natural arisings off-Site to either an appropriate management/receiving facility or receiving Site under a Materials management Plan (MMP). It is also noted for the potential for the presence of basements and relict foundations to remain in-situ following demolition of the previous building and these require further assessment. Further to this, an assessment of risks to human health from soils contaminants and preliminary waste classification exercise has been undertaken. This report is therefore to cover these aspects only and does not comment on other aspects such as coal mining, other geotechnical risks, risks to controlled waters or ground gases.

The report also provides recommendations for further work (where appropriate) based on the findings of the investigation.

This report has not been prepared to specifically discharge planning conditions (refer to Section 1.4) however, the report is considered suitable for submission to the Local Planning Authority to support conditions in relation to land contamination.

1.3 Scope of Works

The scope of the investigation and layout of this report has been designed with consideration of guidance on Land Contamination: Risk Management pages of the [GOV.UK](https://www.gov.uk) web pages, the relevant requirements of the National Planning Policy Framework (NPPF) (as revised 2021) (paragraphs 174 & 183-184)¹ and the Planning Practice Guidance (Land Affected by Contamination)²

The project was undertaken to an agreed brief as set out in Delta-Simons' proposal (reference 21-1514.01, dated 13th October 2021).

The detailed scope of works is outlined in Section 3.

1.4 Proposed Development

The Site is currently vacant with access to the east of the Site along the public footpath. It is understood that the Site is to be developed for 42 residential units with associated gardens, roads, and car parking spaces. The proposed Site plan is provided as Drawing 1.

Full details of the development and associated plans have not been included within this report and reference should be made to the planning application.

It is understood that an existing ground investigation report prepared in 2020 by Haigh Huddleston & Associates, full reference in Section 1.5, is available and will be submitted to support discharge of contaminated land related planning conditions.

1.5 Existing Information

A Client provided third-party report has been made available to Delta-Simons:

- ▲ *Geo-environmental Ground Investigation Report* by Haigh Huddleston & Associates dated August 2020, Ref. E19/7413/R001.

¹ https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1004408/NPPF_JULY_2021.pdf

² <https://www.gov.uk/guidance/land-affected-by-contamination>

1.6 Limitations

The assessment is limited to the issues agreed within the proposal for the works. General notes on limitations associated with this assessment are provided in Appendix A.

1.7 Data Gaps and Uncertainty

In addition, the following specific data gaps and uncertainty apply to this assessment:

- ▲ No proposed ground elevations or levels have been made available to Delta-Simons at time of writing this report.

2.0 Site Details

2.1 Site Setting

A summary of the current Site status, environmental setting and key historical features is presented below. This has been summarised from the existing report listed in Section 1.5 which should be consulted for further detail.

Co-ordinates	Centred approximately at National Grid Reference 414340, 414900	Elevation	158-160 m AOD
		Area	1.09 Ha
Site Address and Location	<p>The Site is located at land off Ruth Street within Newsome, approximately 1.6 km south of Huddersfield town centre. A Site location map is provided as Figure 1. The Site is predominantly surrounded by residential buildings with Hillside Primary School located approximately 80 m to the north.</p> <p>Google Maps Link</p>		
Current Site Description	<p>The Site currently comprises vacant land with sparse vegetation. There is a derelict structure associated with Newsome Mill in the south-east of the Site. The remnants of Newsome Mill and clocktower are present adjacent to the south of the Site.</p>		
Physical Setting	<p>The British Geological Survey (BGS) 1:50,000 geological map (Sheet Number 77, Huddersfield) indicates that the bedrock geology is predominately Stanningley Rock Formation (sandstone) with Pennine Lower Coal Measures (PLCM) Formation (mudstone, siltstone and sandstone) in western portion of the Site. No superficial deposits are indicated to be present within the Site boundary.</p> <p>The Site topography is relatively flat but there is a downhill slope adjacent to the north-western boundary.</p>		
Key Historical Features	<p><u>On Site</u></p> <p>The earliest mapping within the 2020 Haigh Huddleston & Associates report indicates that in circa 1854 the Site was occupied by several buildings labelled as a 'mill'. Between 1888 and 1891 the mill was expanded to cover approximately 80% of the Site. By the 2010 mapping the majority of the mill is shown to have been demolished, leaving only buildings in the south-eastern corner attached to the main mill building adjacent to the south.</p> <p>Available online imagery shows that buildings were demolished after December 2003 and before June 2009. It is understood from the Client as well as online information³ that in November 2013 Newsome Mills was destroyed by fire, much of the remaining structure was demolished to remove risk of collapse. It is unclear where demolition materials were spread.</p> <p><u>Within 100 m of the Site</u></p> <p>Two large mill ponds are located approximately 50 m to the south of the Site as indicated on the 1854 mapping.</p> <p>Residential developments have been built approximately 25 m to the east and north of the Site by 1993.</p>		

³ <https://newsomemill.wordpress.com/2016/12/10/buildings-at-newsome-mills-three-weeks-after-the-fire-the-condition-status-and-ownership-of-the-remaining-structures/>

<p>Summary of Previous /Third Party Reports</p>	<p><i>Geo-environmental Ground Investigation Report</i> by Haigh Huddleston & Associates dated August 2020, Ref. E19/7413/R001.</p> <ul style="list-style-type: none"> ▲ The surface of all the exploratory holes consisted of Made Ground containing a mixture of clay, bricks, crushed brick, gravel, sandstone cobbles and boulders, ash, glass, timber, fabric and tree roots, encountered to a maximum depth of 4.5 m below ground level (bgl). A concrete slab was encountered at 0.9 m bgl in north of the Site. ▲ The chemical analysis of the Made Ground soils identified elevated aromatic hydrocarbon (carbon banding C21-C35), lead and Polycyclic Aromatic Hydrocarbons (PAH) including benzo(b)fluoranthene, benzo(a)pyrene and dibenzo(a,h)anthracene. Asbestos fibres in the form of amosite or chrysotile was identified in six of the nine samples taken.
<p>Summary of Preliminary Conceptual Site Model</p>	<p><u>Sources</u></p> <ul style="list-style-type: none"> ▲ Possible contamination from previous activities as a textile mill. Contamination from the burning down of the mill and subsequent demolition of the former buildings on Site. ▲ Previously identified elevated lead, PAHs, aromatic hydrocarbons C21-C35 and asbestos. <p><u>Pathways</u></p> <ul style="list-style-type: none"> ▲ Potential for ingestion, inhalation of dust//fibres, and direct contact of soil contaminants. <p><u>Receptors</u></p> <ul style="list-style-type: none"> ▲ The principal receptors under consideration are construction workers and future residents.

3.0 Ground Investigation

3.1 Intrusive Investigation

Delta-Simons carried out intrusive investigation work from 4th to 5th November 2021 to assess the potential linkages identified in the outline conceptual model (see Section 2.2 above), to collect data for preliminary waste classification and to provide preliminary geotechnical information.

3.2 Ground Investigation and Rationale

3.2.1 Intrusive Works

The ground investigation comprised the following:

- ▲ Service avoidance and topographic survey of exploratory holes to x,y,z co-ordinates by a specialist sub-contractor;
- ▲ Supervision of all works by a Delta-Simons Geo-Environmental engineer. All intrusive locations were logged in accordance with BS 5930:2015+A1:2020 Code of Practice for Ground Investigations; and
- ▲ Excavation of 16 trial pits (TP101 to TP116) to a maximum depth of 4.4 m bgl.

An intrusive exploratory trial pit location plan is presented as Figure 2.

Specific limitations affecting the proposed scope of works are summarised in Section 1.7.

Delta-Simons exploratory hole engineer verified borehole logs are presented as Appendix B.

3.2.2 Rationale

Trial pits were arranged in an offset grid formation to gain a Site-wide spread representation of typical ground conditions across the Site such as the depth of the Made Ground and underlying bedrock as well as sub-surface obstructions and potential contamination.

3.3 Geotechnical Sampling and In-Situ Testing

3.3.1 Sampling

Sampling comprised disturbed jar/tab and bulk samples as detailed on the trial pit logs.

3.3.2 In-Situ Tests

Hand Shear Vane (HSV) tests were undertaken at appropriate depths where cohesive natural soils were present. The tests were undertaken in accordance with Delta-Simons' Standard Operating Procedure for HSV.

3.4 Geotechnical Laboratory Testing

A selection of soil and rock samples were submitted to the UKAS accredited laboratory for geotechnical testing, the results of which are included in Appendix D. The rationale for the laboratory tests undertaken is provided in the table below.

Laboratory Test	Test Standard	Number of Samples Tested	Rationale
Classification			
Particle Size Analysis for wet/dry and sedimentation	BS1377-2:9.2 & 9.3 or BS EN ISO 17892-4	4	To assess the suitability of the natural soils for re-use as an acceptable earthworks material in accordance with the Specification for Highways Works (SHW) (Series 600).

3.5 Environmental Sampling and Laboratory Analysis

Soils collected for laboratory analysis were placed in a variety of containers appropriate to the anticipated testing suite. Records of the samples taken as part of the Site investigation works, including their depths and location, are included within the exploratory hole records in Appendix B.

Samples were stored in accordance with Delta-Simons' quality procedures to maintain sample integrity and preservation and to minimise the chance of cross contamination. Samples analysed for environmental purposes were placed in chilled cool boxes on site and transported to the laboratory for analysis on completion of the Site investigation works/groundwater sampling visit.

The rationale for chemical analysis is presented in the table below and the results of the chemical laboratory testing are included in Appendix C.

Analytes	No. of Samples Tested	Rationale
	Soil	
Asbestos	16	Common potential contaminant - Analysed in all samples of Made Ground.
pH, sulphate, As, Cd, Cu, Cr, Hg, Pb, Ni, Zn, speciated Polycyclic Aromatic Hydrocarbons (PAH)	16	Potential contaminants of concern, common to many sites. PAH are especially relevant to this Site given as portions of it have been subject to fire in the past in addition to the previously elevated PAH and lead results identified by Haigh Huddleston & Associates.
Total Petroleum Hydrocarbons, Criteria Working Group Method (TPHCWG), Benzene, Toluene, Ethylbenzene and Xylene (BTEX)	16	Potential contaminants of concern, being a previously an industrial Site with likely fuel storage at some point in the past.

4.0 Ground Summary

4.1 Introduction

The sections below summarise the ground and groundwater conditions encountered during the Site investigation.

4.2 Ground Summary

Strata	Typical Strata Description	Depth Range of Strata Top (m)	Depth Range of Strata Base (m)	Thickness Range (m)	Comments
Made Ground: Topsoil	Grass over sandy gravelly CLAY with low to medium cobble content, rare metal, rare glass, rare plastic and frequent roots.	0.0	0.3	0.3	<i>Present in TP113 and TP116 only</i>
Made Ground	Predominately SAND and GRAVEL, occasionally CLAY, of sandstone, red brick and occasionally mudstone with low to high cobble content, ash, rare wood, rare plastic, rare metal, rare glass and occasional clinker.	0.0	0.3 - 3.9	0.3 – 3.9	<i>Present in all locations. Deepest Made Ground identified in TP109</i>
Weathered Stanningley Rock Sandstone	Completely weathered bedrock: soft to stiff sandy gravelly CLAY with sandstone and mudstone. Extremely weathered/weathered sandstone recovered as sandy angular to subangular fine to coarse GRAVEL of sandstone with medium to high cobble content.	0.3 – 3.9	1.2 – 3.5	0.3 – 2.35	<i>Present in all locations except TP102, TP103 and TP109.</i>
Weathered PLCM	Extremely weathered light brown mudstone recovered as sandy angular to subangular fine to coarse GRAVEL of mudstone. Sand is fine to coarse.	0.8 - 3.9	3.5 - 4.4	0.5 – 2.7	<i>Present in TP102, TP103 and TP109</i>

Across the Site the general ground conditions are varying thicknesses of Made Ground, predominantly underlain by weathered Stanningley Rock Sandstone. The Made Ground is recorded as being deeper in the west of the Site. PLCM were identified in the north-west and south-west of the Site.

4.3 Groundwater

4.3.1 Strikes During Investigations

The groundwater strikes during the ground investigation are summarised below.

Exploratory Hole	Water strike during excavation (m bgl)	Water strike during excavation (m AOD)	Stratum	Comment
TP107	1.9	157.51	Weathered Stanningley Rock Sandstone	Seepage
TP110	3.1	156.87	Weathered Stanningley Rock Sandstone	Seepage
TP112	1.9	157.45	Weathered Stanningley Rock Sandstone	Seepage
TP115	2.05	157.72	Weathered Stanningley Rock Sandstone	Seepage
TP116	2.4	147.50	Weathered Stanningley Rock Sandstone	Seepage

The groundwater has been identified within the bedrock strata.

4.4 Visual and Olfactory Evidence of Contamination

No visual or olfactory evidence of potential gross contamination was observed during the investigation.

4.5 Geochemical Testing

Geochemical analysis was undertaken on 16 soil samples of Made Ground, tested for selective contaminants (BRE Special Digest 1:2005 (3rd Edition), Concrete in Aggressive Ground, the results of which are summarised in the table below.

Tests	No. of Tests	Minimum	Maximum
Made Ground			
Soil - pH	16	7.1	9.3
Soil - Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	16	130 mg/kg	3,800 mg/kg
Soil - Water Soluble Sulphate	16	66.1 mg/L	1,920 mg/L

5.0 Geotechnical Information

5.1 Introduction

The Site has outline planning permission for a proposed redevelopment comprising the construction of 42 residential housing units with associated gardens, roads and car parking spaces. A proposed development plan is provided as Drawing 1. An existing derelict structure in the south-east of the Site will need to be demolished to accommodate the proposed development in that area.

5.2 Excavations & Obstructions

Relict underground structures were identified in trial pits TP107, TP106, and TP110. These structures consisted of brick walls and footings. In each trial pit natural ground was reached beneath these structures including bedrock.

Deep Made Ground was identified in the western trial pits, especially in TP109 where it was identified to a proven depth of 4.4 m bgl. Typically Made Ground across Site is in the range of 0.3 m to 3.9 m bgl.

It is expected that conventional mechanical excavators will readily remove the large cobbles and boulders likely to be encountered in shallow excavations. The relict below ground structures encountered while trial pitting includes brick walls and very large boulders often with dimensions of approximately 2.0 m x 1.0 m. Boulders that were excavated during the investigation were left at surface level.

Due to the variability of the Made Ground across Site, all shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site.

6.0 Generic Quantitative Risk Assessment

6.1 Introduction

The presence of hazardous substances in or on a Site is generally only of concern if an actual or potential unacceptable risk exists. Legislation and guidance on the assessment of contaminated sites, consistent with UK best practice, acknowledges the need for a tiered risk-based approach. This section represents a Generic Quantitative Risk Assessment (GQRA) being a comparison of Site contaminant levels against Generic Assessment Criteria.

6.2 Human Health GQRA

The assessment of risks in relation to human health has been undertaken using Generic Assessment Criteria (GAC) as detailed within the appropriate tables. Risks from soil, groundwater and Non-Aqueous Phase Liquids (NAPL) have been considered. The GAC are predominantly based on long term (chronic) risk to health. However, in the limited circumstances where short-term (acute) risks are more pronounced, these GAC have been utilised to ensure a thorough and conservative initial assessment is undertaken.

Based on the proposed residential use, the soil and groundwater chemical data has been compared against a residential end use GAC for 1% soil organic matter (SOM) content.

6.2.1 Risks from Soil Sources

The laboratory results for contaminants exceeding concentrations compared to their respective GAC are presented in the table below.

Contaminant	Max Conc. (mg/kg)	GAC (mg/kg)	GAC Source	No. Exceed GAC / No. of samples	Location of Exceedances (depth) = Concentration (mg/kg)
Asbestos	0.24%	Detected	DS	5/16	TP105 (0.8 m) = Crocidolite <0.001 %, TP106 (0.4 m) = Chrysolite <0.001%, TP107 (0.2 m) = Chrysolite <0.001 %, TP109 (3.9 m) =Chrysolite & Amosite <0.24 % TP110 (0.5 m) = Chrysolite & Amosite 0.002 %
Metals					
Arsenic	380	37	LQM	2/16	TP101 (0.5 m) = 380 mg/kg TP102 (1.2 m) = 220 mg/kg
Cadmium	8	11	LQM	0/16	-
Chromium VI	<1.2	6	LQM	0/16	-
Chromium	440	910	LQM	0/16	-
Copper	620	2,400	LQM	0/16	-
Lead	2,300	200	C4SL	12/16	TP101 (0.5 m) = 1,400 mg/kg TP102 (1.2 m) = 2,300 mg/kg TP105 (0.8 m) = 400 mg/kg TP106 (0.4 m) = 290 mg/kg TP107 (0.2 m) = 300 mg/kg TP109 (3.9 m) = 1,100 mg/kg TP110 (0.5 m) = 440 mg/kg TP111 (0.2 m) = 390 mg/kg TP113 (0.1 m) = 330 mg/kg TP114 (0.5 m) = 790 mg/kg TP115 (0.1 m) = 270 mg/kg TP116 (0.3 m) = 450 mg/kg
Mercury	4.6	40	LQM	0/16	-
Nickel	100	130	LQM	0/16	-
Zinc	740	3,700	LQM	0/16	-
Polycyclic Aromatic Hydrocarbons					
Naphthalene	<0.05	2.3	LQM	0/16	-
Acenaphthylene	<0.05	170	LQM	0/16	-
Acenaphthene	0.69	210	LQM	0/16	-
Fluorene	0.66	170	LQM	0/16	-
Phenanthrene	6.6	95	LQM	0/16	-
Anthracene	1.9	2,400	LQM	0/16	-
Fluoranthene	9.1	280	LQM	0/16	-
Pyrene	8.0	620	LQM	0/16	-
Benzo[a]anthracene	3.9	7.2	LQM	0/16	-

Contaminant	Max Conc. (mg/kg)	GAC (mg/kg)	GAC Source	No. Exceed GAC / No. of samples	Location of Exceedances (depth) = Concentration (mg/kg)
Chrysene	3.6	15	LQM	0/16	-
Benzo[b]fluoranthene	3.1	2.6	LQM	3/16	TP101 (0.5 m) = 3.1 mg/kg TP103 (0.6 m) = 2.7 mg/kg TP104 (0.1 m) = 2.7 mg/kg
Benzo[k]fluoranthene	3.0	77	LQM	0/16	-
Benzo[a]pyrene	3.4	2.2	LQM	3/16	TP101 (0.5 m) = 3.4 mg/kg TP103 (0.6 m) = 2.5 mg/kg TP104 (0.1 m) = 3.2 mg/kg
Indeno(1,2,3-c,d)pyrene	2.1	27	LQM	0/16	-
Dibenz(a,h)anthracene	0.52	0.24	LQM	5/16	TP101 (0.5 m) 0.49 mg/kg TP103 (0.6 m) 0.43 mg/kg TP104 (0.1 m) 0.52 mg/kg TP105 (0.8 m) 0.35 mg/kg TP107 (0.2 m) 0.32 mg/kg
Benzo[g,h,i]perylene	2.7	320	LQM	0/16	-
Petroleum Hydrocarbons					
Benzene	<0.001	0.2	LQM	0/16	-
Toluene	<0.001	130	LQM	0/16	-
Ethylbenzene	<0.001	47	LQM	0/16	-
o-Xylene	<0.001	60	LQM	0/16	-
m/p-Xylene	<0.001	56	LQM	0/16	-
Aliphatic TPH >C5-C6	<0.001	42	LQM	0/16	-
Aliphatic TPH >C6-C8	<0.001	100	LQM	0/16	-
Aliphatic TPH >C8-C10	<0.001	27	LQM	0/16	-
Aliphatic TPH >C10-C12	<1.0	130	LQM	0/16	-
Aliphatic TPH >C12-C16	10	1,100	LQM	0/16	-
Aliphatic TPH >C16-C21	64	65,000	LQM	0/16	-
Aliphatic TPH >C21-C35	270	65,000	LQM	0/16	-
Aliphatic TPH >C35-C40	40	65,000	LQM	0/16	-
Aromatic TPH >C5-C7	<0.001	70	LQM	0/16	-
Aromatic TPH >C7-C8	<0.001	130	LQM	0/16	-
Aromatic TPH >C8-C10	<0.001	34	LQM	0/16	-
Aromatic TPH >C10-C12	2.1	74	LQM	0/16	-
Aromatic TPH >C12-C16	7.6	140	LQM	0/16	-
Aromatic TPH >C16-C21	30	260	LQM	0/16	-
Aromatic TPH >C21-C35	200	1,100	LQM	0/16	-
Aromatic TPH >C35-C40	150	1,100	LQM	0/16	-

Contaminant	Max Conc. (mg/kg)	GAC (mg/kg)	GAC Source	No. Exceed GAC / No. of samples	Location of Exceedances (depth) = Concentration (mg/kg)
Total TPH	440	5,000	DS	-	-
Notes: C4SL - Category 4 Screening Levels (C4SLs) published by DEFRA LQM = Land Quality Management/CIEH S4UIs for Human Health Risk Assessment, 2014 DS = Delta-Simons derived screening values based on professional experience.					

6.2.2 Soil Analysis Summary

Asbestos has been detected in five locations generally in the central west and south-west of the Site. Three different types of asbestos have been detected including crocidolite, chrysolite, and amosite with a quantification up to 0.24 %.

Of the metals, arsenic has been detected at quantities that surpass the residential GAC with plant uptake in the Made Ground of two locations (TP101 and TP102) in the north-western corner of the Site. Lead has also exceeded the relevant GAC in the Made Ground and Made Ground topsoil in majority of locations except the north-east of the Site.

There are three PAH compounds with the Made Ground that have been recorded above the residential GAC with plant uptake across various locations on Site. Benzo[b]fluoranthene and benzo[a]pyrene were found to have exceedances in three locations at TP101, TP103, and TP104 in the north of the Site. Dibenz[a,h]anthracene had five locations where exceedances were recorded, namely TP101, TP103, TP105, TP105 and TP107 in the central-east and north of the Site.

The chemical results from this investigation were similar to those of the 2020 investigation by Haigh Huddleston & Associates.

6.2.3 Risks from Non-Aqueous Phase Liquids (NAPL)

Soil and groundwater exposure models used in generating GACs do not account for the potential for NAPL to represent a source of risk to human health, principally due to the production of vapours. Whilst it is possible to calculate theoretical soil saturation limits, in reality, due to co-solubility effects, these are not an appropriate indicator of the presence of NAPL. In order to assess the presence of NAPL, for petroleum hydrocarbons, an assessment criterion of 5,000 mg/kg for Total Petroleum Hydrocarbons has been applied based on professional experience.

The following has been identified in relation to NAPL at the Site:

- ▲ No observations of NAPL were made within the soils observed during drilling;
- ▲ No concentrations of Total Petroleum Hydrocarbons in excess of 5,000 mg/kg were recorded; and
- ▲ No NAPL was identified on the groundwater encountered during the Site investigation,

On this basis, there is no evidence of NAPL being present on the Site.

7.0 Waste Management

7.1 Preliminary Waste Management

In general, the predominant waste material encountered during the construction phase of development schemes will likely be construction and demolition waste, predominantly waste excavation arisings Made Ground and, potentially, crushed demolition excavation arisings. These may be found in the ground or stockpiled on Site and they may be contaminated which could have implications for their classification and subsequent management.

Delta-Simons understand that the Site is likely to require a reduction in levels in order to facilitate access and an appropriate development platform elevation. It is therefore reasonable to anticipate the removal of Made Ground soils off-Site to an appropriate management/receiving facility. This investigation was completed, in part, to provide an indication of the likely classification of excavation arisings. Classification and management of these types of wastes either on to Site, off Site or within the development are likely to require further investigation and assessment.

While a full waste classification sampling and analysis exercise (compliant with relevant guidance) has not been completed, as per our proposal, we have reviewed the available laboratory analysis using the HazWol online tool. The results of the HazWol online assessment are provided as Appendix F.

The reported concentrations suggest that the Made Ground in the vicinity of sampling locations TP101, TP102 and TP109 contains concentrations of copper, lead and zinc likely to result in excavation arisings, if disposed off-Site, warranting a hazardous classification and so is likely to require disposal under duty of care to an appropriately licenced facility. Made Ground is described as containing rare coal, ash deposits and burnt wooden sleepers, it is reasonable to anticipate that these may have resulted in the elevated concentrations of metals observed. The other thirteen samples were reported as containing concentrations of potential contaminants at concentrations which indicate a non-hazardous classification is likely. All trial pits recorded ash present in the Made Ground in varying amounts and it is possible that more excavations arisings than that indicated by three of sixteen samples having a hazardous classification.

For the preliminary assessment it is reasonable to infer that, while much of the Made Ground materials are reasonably likely to be classified as Non-Hazardous Waste: 17.05.04 Construction and Demolition Wastes (Soil and stones other than those mentioned in 17 05 03), some is likely to be classified as soil and stones containing hazardous substances (17 05 03). It should be noted however that any receiving waste disposal organisation may wish to see further data (additional samples and a different/wider suite of chemicals), and it is possible that further sampling and analysis might identify data that results in a different classification.

It will be important to appropriately manage arisings to avoid mixing wastes of potentially different classifications (and so avoid a breach of waste legislation). This will also help minimise increases in the cost of disposal by reducing the amount that requires disposal as hazardous material. Additional testing and classification of excavation arisings being managed off Site may be warranted. It should be noted that any receiving waste disposal organisation may wish to see further data (additional samples and a different/wider suite of chemicals), and it is possible that further sampling and analysis might identify data that results in a different classification than that completed using the data to date.

Since the Landfill Directive was implemented into UK law, landfill sites have been divided into those accepting inert, non-hazardous and hazardous waste. Landfills may only accept waste of the same classification as the landfill, although some non-hazardous landfills with specially prepared engineered cells, can accept certain types of hazardous waste such as Stable Non-reactive Hazardous Waste (SNRHW).

Waste Acceptance Criteria (WAC) are used to determine the acceptance of waste at landfills, they do not provide waste classification. There are specific WAC tests for inert and hazardous landfills. Materials classified as hazardous must meet the hazardous WAC before they are accepted in a hazardous landfill. If materials classified as non-hazardous meet the inert WAC they may be accepted in an inert landfill, if not, they may be accepted at a non-hazardous landfill. There are currently no non-hazardous WAC tests.

Waste Acceptance Criteria (WAC) analysis was undertaken on five samples of Made Ground, two of which are Made Ground topsoil. The results of one sample from Made Ground topsoil (from TP116) indicates the material would likely be acceptable at a facility licenced to receive inert waste. The other four samples report elevated concentrations of one contaminant (TP113 - TOC, TP106 & TP109 - sulphate, TP113 - antimony)

dictating that materials may not be acceptable at a facility licenced to receive inert waste. Results do however meet thresholds for stable non-reactive facilities.

Where materials are to be removed from Site, either because they are excess to requirements or they have physical or chemical (contamination) properties that make them unsuitable for use, they should be characterised by the Contractor in accordance with Environment Agency Guidance WM3 (Guidance on the classification and assessment of wastes 1st edition v1.1, dated May 2018 or as amended). The results of the chemical analysis in this report (and the preceding report by Haigh Huddleston) should be forwarded to the proposed receiving facility. The Contractor should take account of the Waste Hierarchy when considering the management of materials off Site with disposal being the least favoured end-point. The materials to be removed will require management at an appropriate facility in accordance with the current Duty of Care regime. Any hauliers used in the transport of waste materials will require an appropriate license. Appropriate records will be required and all parties in the Duty of Care chain will need to complete relevant documentation appropriately.

8.0 Revised Conceptual Site Model

A revised CSM is presented in the table below and has been formulated taking into account all of the available data from the Delta-Simons intrusive investigation, suitable for a site with a proposed residential end-use with consumption of home grown produce.

Revised Conceptual Site Model				
Source	Pathways	Receptors	Pollutant Linkage?	Discussion and Mitigation
Asbestos, lead, arsenic, and PAHs in Made Ground. Lead in Made Ground topsoil.	Consumption of home grown produce and attached soil	Human health – future residents/maintenance workers	Yes	The quantitative generic human health risk assessment has identified determinants in excess of the relevant GAC that present a potential risk to the future Site users (residents). It is considered that hardstanding at the Site as part of the proposed development is likely to break potential pathways, and a topsoil clean cover system of a minimum thickness of 600 mm should be adopted for new areas of soft landscaping to break contaminant linkage where Made Ground is to remain on Site. The cover system should include either a geotextile membrane or ‘hard to dig layer’ at the base.
	Direct contact, ingestion and/or inhalation of soil/dust	Human health – construction workers	Yes	Short term risk would be mitigated by use of Personal Protective Equipment (PPE) and provision of suitable welfare facilities. The possibility of encountering contaminated soils as well as asbestos should be made aware to construction workers.

9.0 Conclusions & Recommendations

9.1 Conclusions

The investigation has been carried out in order to provide further information on the quality of the soil beneath the Site in the context of land contamination, provide preliminary information on below ground obstructions including relict former building structures and basements, and provide a preliminary waste classification exercise for the potential removal of soils from Site. The assessment has been completed prior to the proposed redevelopment of the Site.

Ground conditions underlying the Site were found to comprise Made Ground overlying Stanningley Rock Sandstone/PLCM.

There were relict underground structures encountered in trial pits TP107, TP106, and TP110. These structures consisted of brick walls and footings. Large boulders were identified at the surface and within excavations across Site.

Asbestos has been detected generally in the central west and south-west of the Site. Elevated arsenic, lead and PAHs have been recorded at multiple locations across Site within the Made Ground. Elevated lead was additionally identified in the Made Ground topsoil. The soils on

Whilst no final proposed levels have been made available to Delta-Simons, it is anticipated that a cut/fill scheme will be required to form a suitable development platform as part of the enabling works

The majority of Made Ground materials are likely to be classified as Non-Hazardous Waste based on the preliminary results, however, some material is likely to be classified as soil and stones containing hazardous substances. Waste Acceptance Criteria (WAC) analysis was undertaken on five samples of Made Ground, two of which are Made Ground topsoil. The results of four samples reported elevated concentrations of one contaminant which are likely to dictate that the materials may not be acceptable at a facility licenced to receive inert waste. All results do however meet thresholds for stable non-reactive facilities.

9.2 Recommendations

No further investigation / assessment works in relation to land contamination issues are considered to be necessary for the redevelopment of the Site based on the current proposals.

The following recommendations for the development of the Site are made:

- ▲ The waste classification is preliminary and further consultation with waste facilities, WAC testing and further characterisation maybe required prior to off-Site management of any waste arisings or further testing prior to transfer to other receiving sites under an MMP;
- ▲ An MMP would be required for any movement and reuse of Made Ground materials on Site;
- ▲ Relict foundations, obstructions etc should be considered within the earthworks programme due to potential issues around differential settlement, pile obstruction etc. Further delineation and removal prior to development as part of the earthworks programme may be required. The findings of the report should be considered by the Earthworks, Piling and Construction Contractors to consider if further investigation and/or treatment e.g., removal of obstructions is required; and
- ▲ A Remediation Strategy should be prepared for submission and approval by the Local Planning Authority comprising:
 - The provision of a minimum 600 mm of clean cover layer comprising at least 150 mm topsoil and uncompacted subsoil in areas of soft landscaping which should be formalised in a Remediation Strategy;
 - Groundworkers and sub-surface maintenance workers should be made aware of the possibility of encountering contaminated soils through toolbox talks and in particular the potential presence of asbestos and an appropriate protocol and risk assessments to mitigate exposure of the workforce and general public should be in place. Good standards of personal hygiene should be observed, and appropriate levels of PPE / Respiratory Protective Equipment (RPE) utilised where necessary;
 - Implementation of ground gas protection measures (further monitoring and assessment is understood to be completed by Haigh Huddleston Associates); and

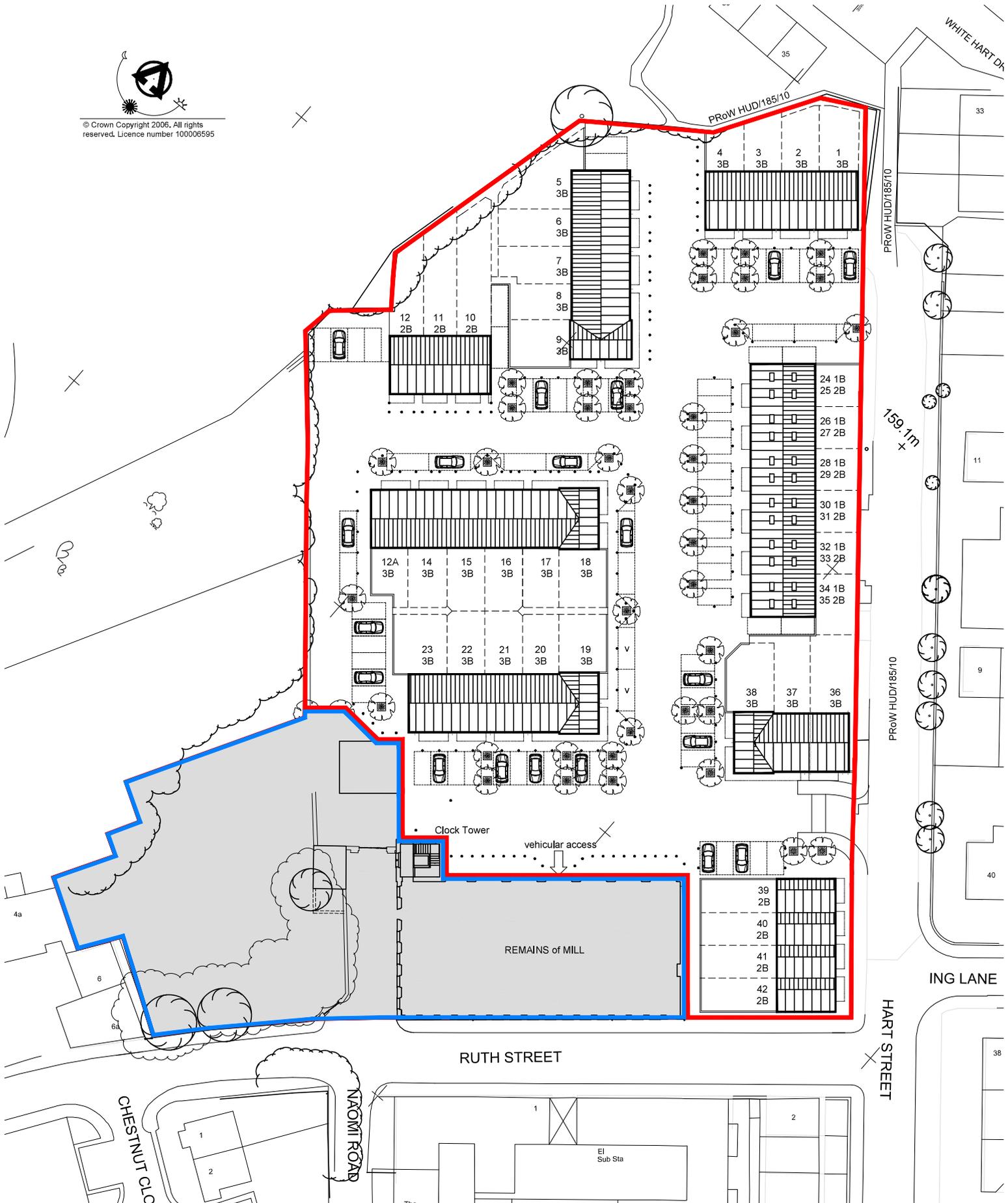
- Unidentified localised areas of contamination may exist at the Site and an appropriate 'hotspot' protocol should be in place for groundworkers to act upon should such contamination be identified during the construction process. This should be set out within the proposed Remediation Strategy.

Drawings

Drawing 1 – Proposed Development



© Crown Copyright 2006. All rights reserved. Licence number 100006595



Title
Site Plan

Site
Newsome Mills
Ruth Street
Newsome, Huddersfield, HD4 6JF



BRITCH & ASSOCIATES
CHARTERED ARCHITECTS

Drawing No.
2968 / 2.240

Scale: **1:500**

Date: **22.11.18** Client: **Panorama Living**

31 Crescent, Salford, Manchester, M5 4PF
T 0161 736 1447 E office@britch.co.uk

Figures

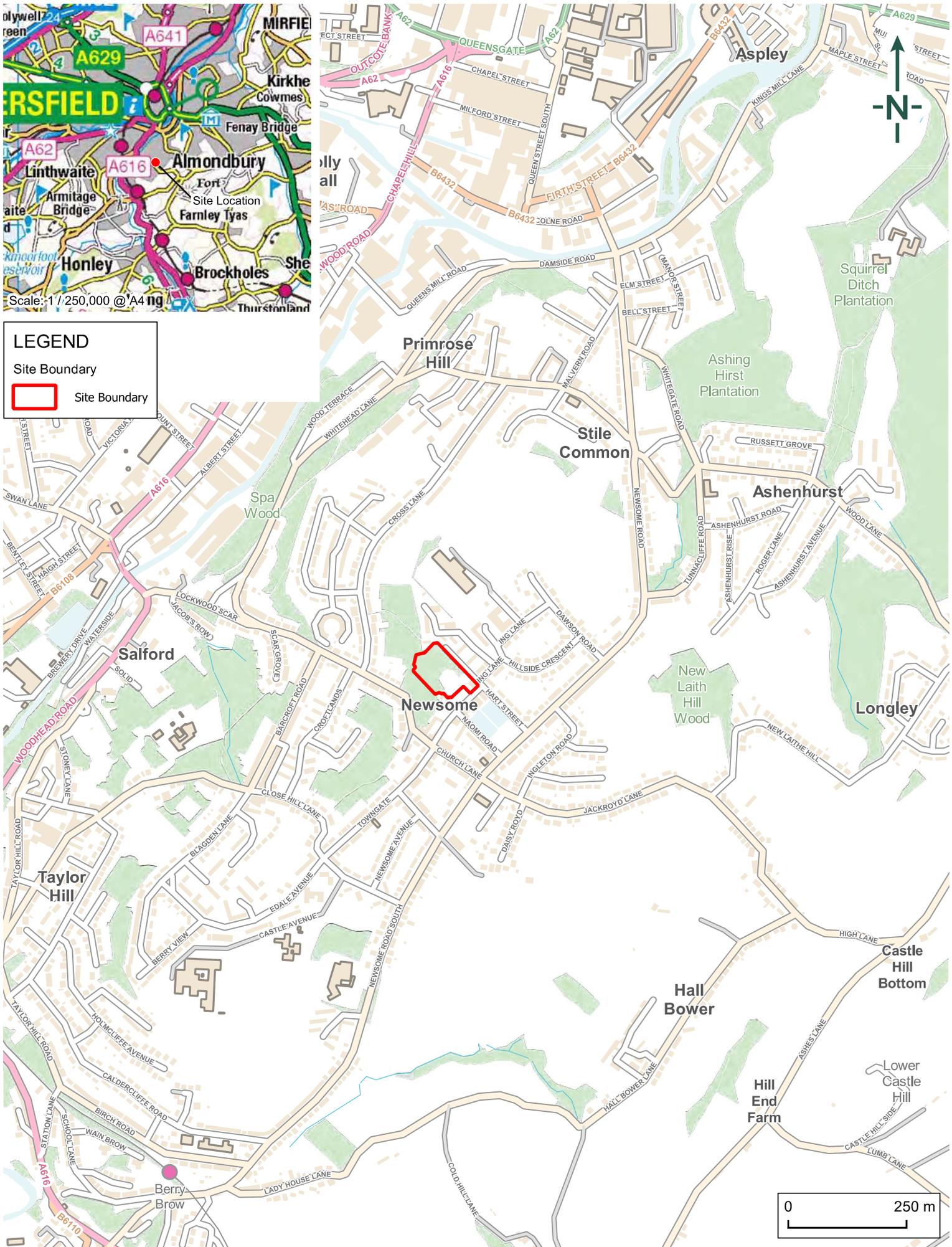
Figure 1 – Site Location Map



LEGEND

Site Boundary

 Site Boundary



Service Layer Credits: Contains OS data @ Crown Copyright and Database Right 2019

Figure 2 – Exploratory Trial Pit Plan



LEGEND

- Site Boundary
- Trial Pits



Bing

DRAWN BY: LB	SCALE (@A1): 1:800	PROJECT NO.:
CHECKED BY: LM	REVISION: -	21-1514.01
DATE: 01 December 2021		FIGURE NO.:
		2

Appendices

Appendix A – Limitations

Limitations

This Report was prepared by Delta-Simons Environmental Consultants Ltd (Delta-Simons) for the sole and exclusive use of the Client and for the specific purpose for which Delta-Simons was instructed. Nothing contained in this Report shall be construed to give any rights or benefits to anyone other than the Client and Delta-Simons, and all duties and responsibilities undertaken are for the sole and exclusive benefit of the Client and not for the benefit of any other party. Delta-Simons does not intend, without its written consent through a formal letter of reliance or warranty, for this Report to be disseminated to any party other than the named Client or to be used or relied upon by any party other than the named Client. Use of the Report by any other party is unauthorised and such use is at the sole risk of the user. Any party using or relying upon this Report, other than the Client, agrees by virtue of its use to indemnify and hold harmless Delta-Simons from and against all claims, losses and damages (of whatsoever nature and howsoever or whensoever arising), arising out of or resulting from the performance of the work by Delta-Simons. Unless explicitly agreed otherwise, in writing, this Report has been prepared under Delta-Simons' Standard Terms and Conditions as included within our proposal to the Client.

The recommendations contained within this Report represent Delta-Simons professional opinions, based upon the information detailed within the Report, exercising the reasonable skill and care to be expected of a professional consultant holding itself out as having the competence, experience and resources necessary for the purpose of carrying out similar work in scope and character to the services performed. The Report needs to be considered in the light of the proposal and associated limitations of scope. The Report needs to be read and considered in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the Report.

Where Delta-Simons has obtained, reviewed and evaluated information in preparing this Report from the Client and others and Delta-Simons conclusions, opinions and recommendations has been reasonably determined using this information, Delta-Simons does not warrant the accuracy of the third-party information provided to it and cannot be responsible for any opinions which Delta-Simons has expressed, or conclusions which it has reached in reliance upon information which is subsequently proven to be inaccurate.

Site surveys document the conditions encountered at the time of survey only and conditions may change due to natural processes or human intervention. As such, surveys represent an assessment at a specific point in time and Delta-Simons cannot be responsible for adverse conditions which arise or become apparent after the time of the survey or for conditions which sit outside the scope for which the survey or Report was commissioned.

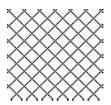
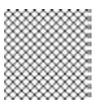
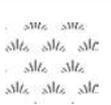
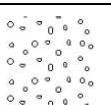
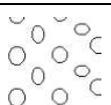
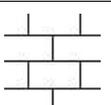
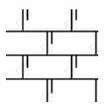
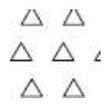
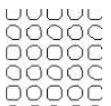
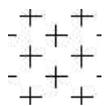
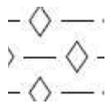
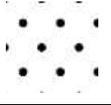
Where intrusive investigations have been completed, information, comments and opinions given in this report are based on the ground conditions encountered during the site work period and on the results of laboratory and field tests performed during the investigation. Ground conditions are inherently variable such that no investigation can be exhaustive to the extent that all adverse conditions are revealed. Conditions may therefore be present beneath the site that were not apparent in the data reviewed or obtained as part of this assessment. It should be noted that groundwater levels vary due to seasonal and other effects and may at times differ to those measured during the investigation. Delta-Simons does not warrant or guarantee that the Site is free of hazardous or potentially hazardous materials or conditions. Where risk assessment is undertaken, this is based upon the standards, guidance and common practice at the time of the assessment and Delta-Simons cannot be responsible for conditions which become apparent following changes in guidance or practice or advancements in scientific knowledge which change the position in relation to assessment of risk.

No aspect of this Report constitutes a design. Where this information is used in design, the designer should verify the information has been used appropriately.

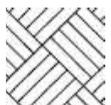
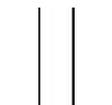
Where budgets are prepared and presented within the Report, these are for information only to indicate the likely magnitude of a cost and do not represent an invitation to treat for the works. All budgets and programmes presented should be reviewed and verified by appropriately qualified and experienced independent Project Managers and Cost Consultants.

Appendix B – Borehole Logs

KEY TO BOREHOLE AND TRIAL PIT LOGS
MATERIAL LEGENDS

	Topsoil		Made Ground		Bituminous Material
	Concrete		Clay		Silt
	Sand		Gravel		Peat
	Cobbles		Boulders		Mudstone
	Siltstone		Sandstone		Limestone
	Chalk		Coal		Breccia
	Conglomerate		Igneous		Metamorphic
	Pyroclastic (volcanic ash)		Gypsum		Shale
	Ironstone		Bedrock (Unidentified)		Void

INSTALLATION/BACKFILL LEGENDS

	Sand		Gravel		Bentonite/Grout
	Arisings		Concrete		Plain Pipe
	Slotted Pipe				

Legend symbols in general accordance with BS 5930:2015+A1:2020 and standard industry practice.

SAMPLE TYPES

ACM	Asbestos Containing Material Sample
B	Bulk Disturbed Sample
BLK	Block Sample
C	Core Sample
CBR	Undisturbed Sample for California Bearing Ratio Test – 154mm diameter
D	Disturbed Sample - Tub
ES	Soil Sample for Environmental Testing
EW	Water Sample for Environmental Testing
G	Gas Sample
U	Undisturbed Driven Tube Sample – 70/102mm diameter, 450mm long
W	Water Sample

TEST TYPES

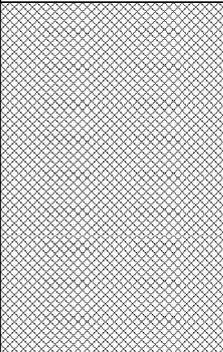
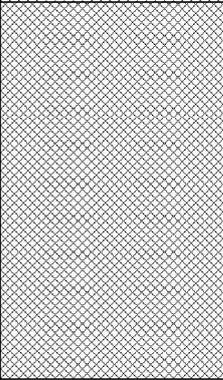
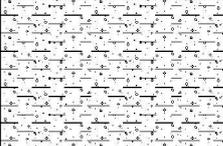
CPT	Cone Penetrometer Test (kN/m ²)
FID	Flame Ionisation Detector Test (ppm)
HV	In-Situ Hand Shear Vane Test (kN/m ²)
PID	Photoionisation Detector Test (ppm)
SPT (S)	Standard Penetration Test – Split Spoon Sampler
SPT (C)	Standard Penetration Test – Solid 60 Degree Cone

CORE DETAILS

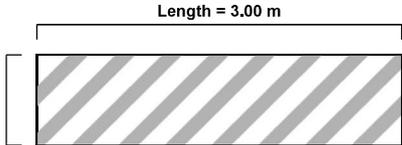
If	Fracture Spacing (mm) – Minimum, Average, Maximum
NI	Non-Intact where >25 fracture spacings per metre
TCR	Total Core Recovery (%)
SCR	Solid Core Recovery (%)
RQD	Rock Quality Designation (%)
AF	Air Flush Return (%)
WF	Water Flush Return (%)
NIDD	Non-Intact - Drilling Disturbed
AZCL	Assessed Zone of Core Loss

WATER COLUMN DETAILS

	Water Strike
	Water Level

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Brown gravelly slightly clayey fine to coarse SAND with medium cobble content and rare plastics, rare metal and rare glass. Gravel is angular to subrounded fine to coarse of sandstone, red brick fragments and rare coal with frequent lenses of ash deposits (150mm x 4mm). Cobbles are angular to subangular of red bricks and sandstone.		1.40	156.88		0.50	ES1		
MADE GROUND: Brown slightly gravelly sandy SILT of ash. Gravel is angular to subangular fine to coarse of sandstone and red brick fragments. Sand is fine to coarse.		2.90	155.38					
Firm to stiff light brown mottled orange slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		3.50	154.78				3.00	HV=105 kPa
Trial pit complete at 3.50 m bgl.								

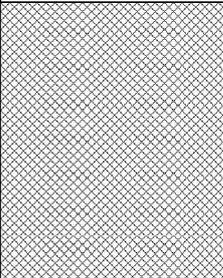
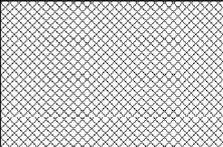
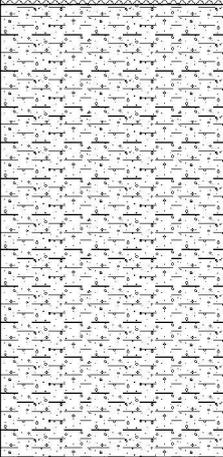
Dimensions and Orientation:



Orientation: **57°**
Inclination: **90**

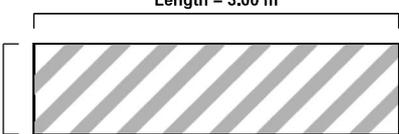
Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 3.50 m bgl on weathered bedrock.
5. No groundwater was encountered.

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Grass over dark brown gravelly slightly clayey fine to coarse SAND with high cobble content, burnt wooden sleepers and rare glass. Gravel is angular to subrounded fine to coarse of sandstone and red brick fragments with ash. Cobbles are subangular of sandstone.		1.10	157.22		1.20	ES1		
MADE GROUND: Brown gravelly slightly clayey fine to coarse SAND with rare metal and ash. Gravel is angular to subrounded fine to coarse of sandstone and red brick fragments.		1.70	156.62					
Stiff light brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to medium of sandstone and mudstone. (WEATHERED LOWER PENNINE COAL MEASURES)		3.50	154.82					
Trial pit complete at 3.50 m bgl.								

Dimensions and Orientation:

Length = 3.00 m



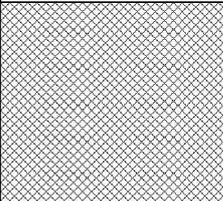
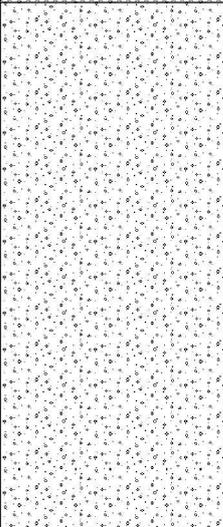
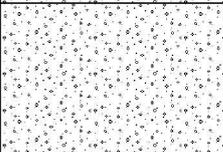
Width = 0.80 m

Orientation: **24°**

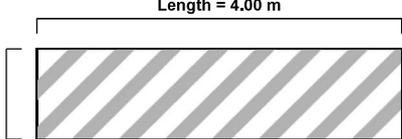
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 3.50 m bgl on weathered bedrock.
5. No groundwater was encountered.

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Grass over dark brown gravelly fine to coarse SAND with high cobble content, low boulder content, rare glass and rare wood. Gravel is angular to subrounded fine to coarse of sandstone, mudstone and red brick fragments, and frequent ash deposits (300mm x 5 mm). Cobbles are angular to subangular of sandstone, mudstone and red bricks. Boulders are subangular of sandstone.		0.80	158.10		0.60	ES1		
Extremely weathered light brown mudstone recovered as sandy angular to subangular fine to coarse GRAVEL of mudstone. Sand is fine to coarse. (WEATHERED LOWER PENNINE COAL MEASURES)		2.90	156.00					
Weathered mudstone recovered as slightly sandy angular to subangular fine to coarse GRAVEL of mudstone. Sand is fine to coarse. (WEATHERED LOWER PENNINE COAL MEASURES)		3.50	155.40					
Trial pit complete at 3.50 m bgl.								

Dimensions and Orientation:



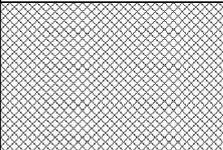
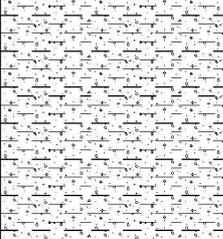
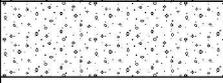
Orientation: **68°**
Inclination: **90**

Remarks:
1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 3.50 m bgl on weathered bedrock.
5. No groundwater was encountered.

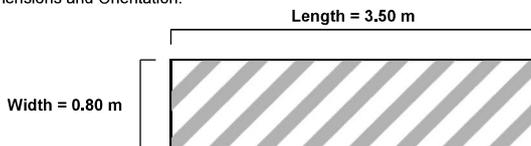
Trial Pit Log

Date: **04/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Dark brown gravelly fine to coarse SAND with rare ceramics and rare ash. Gravel is angular to rounded fine to coarse of sandstone, mudstone and red brick fragments.		0.60	159.00		0.10	ES1		
Soft to firm orange mottled dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.60	158.00		1.00	B2	1.00	HV=62 kPa
Weathered sandstone recovered as orange and brown sandy angular fine to coarse GRAVEL of sandstone with medium cobble content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.90	157.70					
Trial pit complete at 1.90 m bgl.								

Dimensions and Orientation:



Orientation: **70°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 1.90 m bgl on weathered bedrock.
5. No groundwater was encountered.

Coordinates: **E44504.00 N414324.00**

Elevation (mAOD): **159.60**

Excavated By: **J. Jagger**

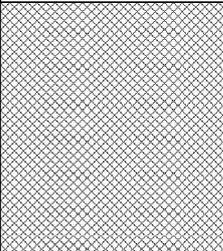
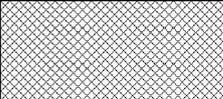
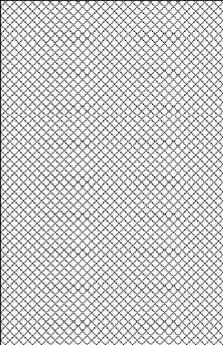
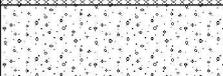
Plant Used: **Rubber Duck**

Logged: **LB**

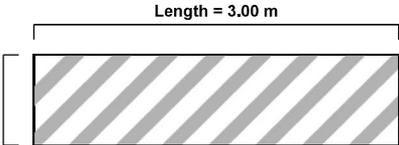
Checked: **LM**

Approved: **DJ**

Scale: **1:30**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Brown sandy angular to subangular fine to coarse GRAVEL of sandstone, red brick fragments and frequent lenses of ash (500mm x 100mm) with high cobble content, low boulder content, rare glass and rare plastic. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and red bricks. Boulders are subangular of sandstone.		1.00	158.52		0.10	ES1		
MADE GROUND: Grey sandy angular to subangular fine to coarse GRAVEL of sandstone and red brick fragments with medium cobble content. Sand is fine to coarse. Cobbles are subangular of red bricks. <i>Grey and black ash layer.</i>		1.40	158.12					
MADE GROUND: Red and brown sandy angular to subangular fine to coarse GRAVEL of sandstone and red bricks with high cobble content. Sand is fine to coarse. Cobbles are subangular of sandstone and red bricks.		2.80	156.72					
Weathered sandstone recovered as orange and brown sandy angular to subangular fine to coarse GRAVEL with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE) Trial pit complete at 3.10 m bgl.		3.10	156.42					

Dimensions and Orientation:



Orientation: **68°**
Inclination: **90**

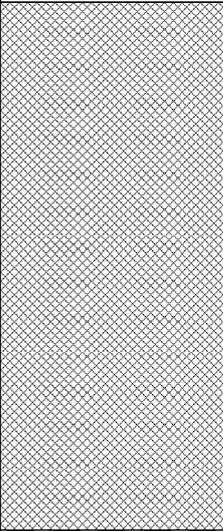
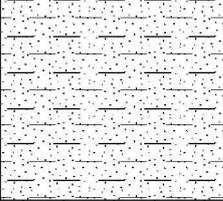
Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 3.10 m bgl on weathered bedrock.
5. No groundwater was encountered.

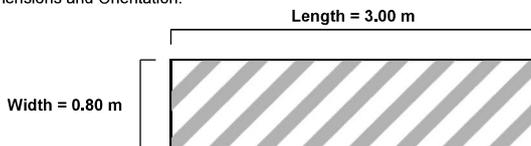
Trial Pit Log

Date: **04/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Brown sandy angular to subangular fine to coarse GRAVEL of sandstone and red brick fragments with rare wood, rare plastic, and ash with high cobble content and low boulder content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone and red bricks. Boulders are subangular of sandstone.		2.10	156.79		0.40	ES1		
Stiff orange slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		2.90	155.99				2.50	HV=119 kPa
Trial pit complete at 2.90 m bgl.								

Dimensions and Orientation:



Orientation: **47°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 2.90 m bgl on weathered bedrock.
5. No groundwater was encountered.

Coordinates:
E44504.00 N414309.00

Elevation (mAOD):
158.89

Excavated By:
J. Jagger

Plant Used:
Rubber Duck

Logged:
LB

Checked:
LM

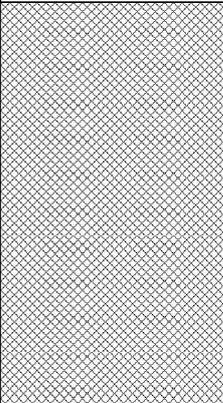
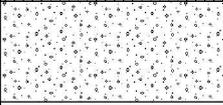
Approved:
DJ

Scale:
1:30

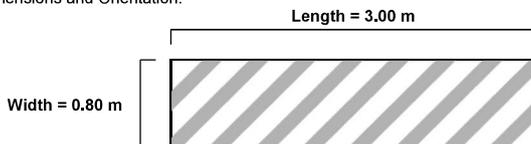
Trial Pit Log

Date: **04/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Soft to firm dark brown slightly sandy gravelly CLAY with low cobble content, rare coal and ash. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of sandstone and red brick fragments. Cobbles are angular to subangular of sandstone and red bricks.					0.10	ES1		
Weathered orange and brown sandstone recovered as sandy subangular to subrounded fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse. Cobbles are subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.60	157.81					
Layer of sandstone flagstones. Trial pit complete at 2.00 m bgl.		2.00	157.41	1.90				

Dimensions and Orientation:



Orientation: **75°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 3.50 m bgl on weathered bedrock.
5. Groundwater was encountered at 1.90 m bgl.

Coordinates:
E44504.00 N414334.00

Elevation (mAOD):
159.41

Excavated By:
J. Jagger

Plant Used:
Rubber Duck

Logged:
LB

Checked:
LM

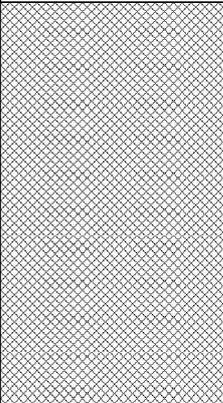
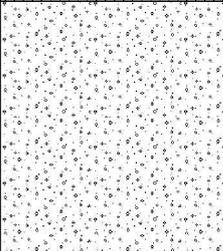
Approved:
DJ

Scale:
1:30

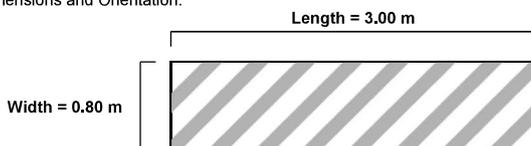
Trial Pit Log

Date: **04/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Brown gravelly fine to coarse SAND with high ash content. Gravel is angular to rounded fine to medium of sandstone, mudstone and clinker.		1.60	157.55		0.50	ES1		
Weathered sandstone recovered as orange sandy angular to subangular fine to coarse GRAVEL of sandstone with low cobble content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		2.60	156.55		2.00	B2		
Trial pit complete at 2.60 m bgl.								

Dimensions and Orientation:



Orientation: **46°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 2.60 m bgl on weathered bedrock.
5. No groundwater was encountered.

Coordinates:
E44504.00 N414341.00

Elevation (mAOD):
159.15

Excavated By:
J. Jagger

Plant Used:
Rubber Duck

Logged:
LB

Checked:
LM

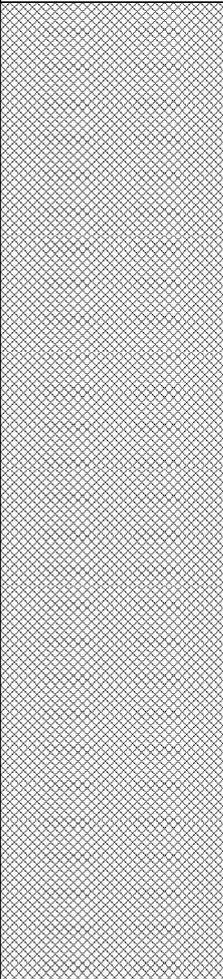
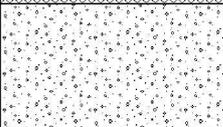
Approved:
DJ

Scale:
1:30

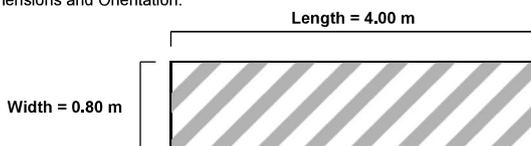
Trial Pit Log

Date: **04/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Brown very gravelly fine to coarse SAND with medium cobble content, low boulder content, ash, rare metal, rare fabrics, rare plastics and rare wood. Gravel is subangular to subrounded fine to coarse of sandstone and red brick fragments. Cobbles are subangular to subrounded of sandstone. Boulders are subangular of sandstone.		3.90	156.18		3.90	ES1		
Weathered mudstone recovered as sandy angular to subangular fine to coarse GRAVEL of mudstone. Sand is fine to coarse. (WEATHERED LOWER PENNINE COAL MEASURES)		4.40	155.68					
Trial pit complete at 4.40 m bgl.								

Dimensions and Orientation:



Orientation: **70°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 4.40 m bgl on weathered bedrock.
5. No groundwater was encountered.

Coordinates:
E44504.00 N414315.00

Elevation (mAOD):
160.08

Excavated By:
J. Jagger

Plant Used:
Rubber Duck

Logged:
LB

Checked:
LM

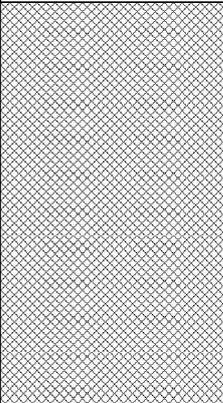
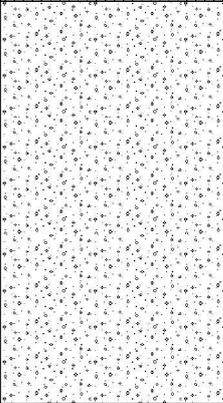
Approved:
DJ

Scale:
1:30

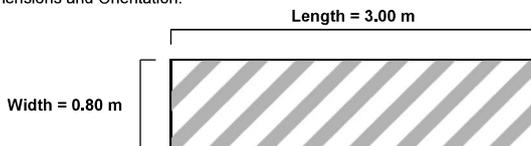
Trial Pit Log

Date: **04/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Dark brown gravelly clayey fine to coarse SAND with frequent cobbles, rare metal, rare plastic and rare glass. Gravel is angular to rounded fine to coarse of sandstone and red brick fragments. Cobbles are subangular of sandstone and red bricks.		1.60	158.37		0.50	ES1		
Weathered sandstone recovered as very sandy subangular to subrounded fine to coarse GRAVEL of sandstone with medium cobble content and low boulder content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. Boulders of subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		3.20	156.77	3.10				
Trial pit complete at 3.20 m bgl.								

Dimensions and Orientation:



Orientation: **78°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 3.20 m bgl on weathered bedrock.
5. Groundwater was encountered at 3.10 m bgl.

Coordinates: **E44504.00 N414327.00**

Elevation (mAOD): **159.97**

Excavated By: **J. Jagger**

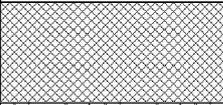
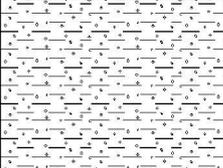
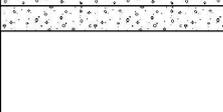
Plant Used: **Rubber Duck**

Logged: **LB**

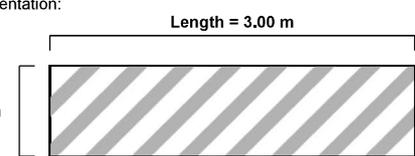
Checked: **LM**

Approved: **DJ**

Scale: **1:30**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Firm brown mottled orange slightly sandy gravelly CLAY with medium cobble content with frequent wood and ash. Sand is fine to coarse. Gravel is angular to subangular fine to coarse of sandstone. Cobbles are angular to subangular of sandstone.		0.40	159.48		0.20	ES1		
Firm orange gravelly CLAY with medium cobble content. Gravel is angular to subrounded fine to coarse of sandstone. Cobbles are subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.10	158.78					
Weathered sandstone recovered as orange, brown and grey sandy angular to subangular fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE) Trial pit complete at 1.20 m bgl.		1.20	158.68					

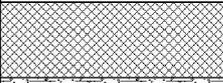
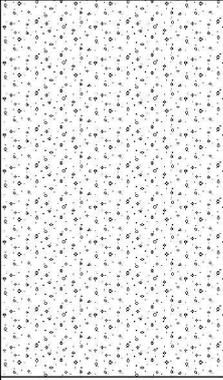
Dimensions and Orientation:

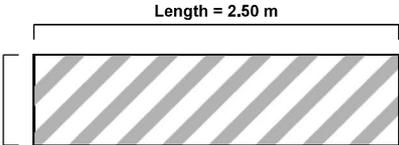


Orientation: **69°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 1.20 m bgl on weathered bedrock.
5. No groundwater encountered.

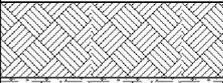
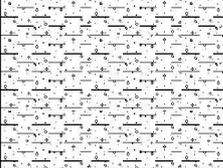
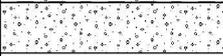
Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Brown gravelly fine to coarse SAND with an abundance of ash and clinker. Gravel is angular to rounded fine to medium of sandstone and mudstone. Sand is fine to coarse.		0.30	159.05	1.90 ▼	0.10	ES1		
Orange and brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is angular to rounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		0.50	158.85					
Weathered sandstone recovered as sandy angular to subrounded fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		2.00	157.35					
Trial pit complete at 2.00 m bgl.								

<p>Dimensions and Orientation:</p> 			<p>Orientation: 56° Inclination: 90</p>		<p>Remarks:</p> <ol style="list-style-type: none"> 1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002. 2. Trial pit location cleared for services prior to breaking ground. 3. Elevation and location data obtained from GPS survey. 4. Trial pit terminated at 3.50 m bgl on weathered bedrock. 5. Groundwater encountered at 1.90 m bgl. 			
Coordinates: E44504.00 N414359.00	Elevation (mAOD): 159.35	Excavated By: J. Jagger	Plant Used: Rubber Duck	Logged: LB	Checked: LM	Approved: DJ	Scale: 1:30	

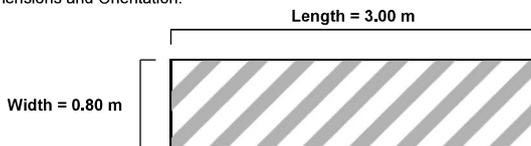
Trial Pit Log

Date: **05/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Grass over brown slightly gravelly sandy CLAY with medium cobble content, rare metal, rare plastic and frequent roots. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of sandstone and red bricks. Cobbles are subangular to subrounded of sandstone and red bricks. (TOPSOIL)		0.30	159.86		0.10	ES1		
Firm to stiff orange mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to rounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.00	159.16		0.50	B2	0.70	HV=95 kPa
Weathered sandstone recovered as sandy angular to subrounded fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.20	158.96					
Trial pit complete at 1.20 m bgl.								

Dimensions and Orientation:



Orientation: **79°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 1.20 m bgl on weathered bedrock.
5. No groundwater was encountered.

Coordinates:
E44505.00 N414345.00

Elevation (mAOD):
160.16

Excavated By:
J. Jagger

Plant Used:
Rubber Duck

Logged:
LB

Checked:
LM

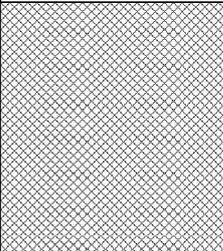
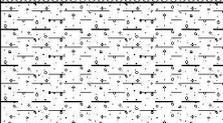
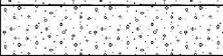
Approved:
DJ

Scale:
1:30

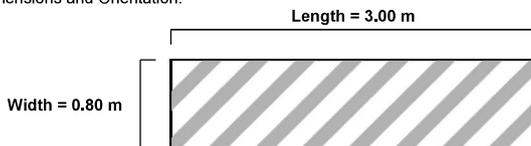
Trial Pit Log

Date: **05/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Dark brown gravelly slightly clayey fine to coarse SAND with low cobble content, rare glass, rare wood and rare wire cables. Gravel is subangular to subrounded fine to coarse of sandstone and red brick fragments. Cobbles are subangular to subrounded of sandstone and red bricks.		1.00	159.08		0.50	ES1		
Soft to firm orange mottled dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.50	158.58		1.00	B2	1.20	HV=123 kPa
Weathered sandstone recovered as orange and grey sandy angular to subangular fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles are subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE) Trial pit complete at 1.70 m bgl.		1.70	158.38					

Dimensions and Orientation:



Orientation: **76°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 1.70 m bgl on weathered bedrock.
5. No groundwater was encountered.

Coordinates:
E44505.00 N414365.00

Elevation (mAOD):
160.08

Excavated By:
J. Jagger

Plant Used:
Rubber Duck

Logged:
LB

Checked:
LM

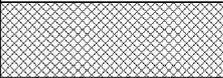
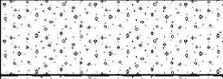
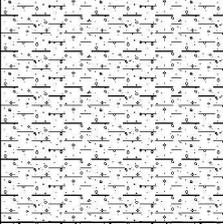
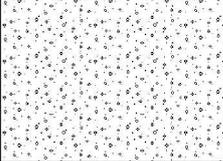
Approved:
DJ

Scale:
1:30

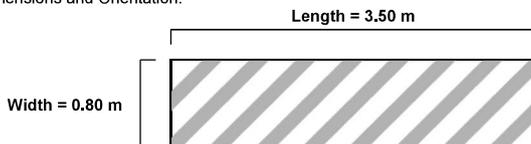
Trial Pit Log

Date: **05/11/2021**

Client: **Connect Housing Association Ltd and Collaborate Living Ltd**

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Soft to firm brown and grey slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is angular fine to coarse of sandstone.		0.30	159.47	2.05	0.10	ES1	1.00	HV=77 kPa
Weathered sandstone recovered as grey sandy angular to rounded fine to coarse GRAVEL of sandstone. Sand is fine to coarse. (WEATHERED STANNINGLEY ROCK SANDSTONE)		0.60	159.17					
Stiff orange slightly gravelly sandy CLAY with low cobble content. Gravel is angular to subrounded fine to coarse of sandstone. Sand is fine to coarse. Cobbles are angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		1.50	158.27					
Weathered sandstone recovered as sandy angular to subrounded fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles of angular to subangular of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		2.15	157.62					
Trial pit complete at 2.15 m bgl.								

Dimensions and Orientation:



Orientation: **45°**
Inclination: **90**

Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 2.15 m bgl on weathered bedrock.
5. Groundwater encountered at 2.05 m bgl.

Coordinates:
E44505.00 N414376.00

Elevation (mAOD):
159.77

Excavated By:
J. Jagger

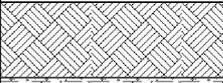
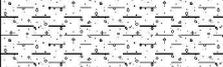
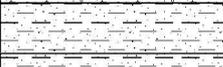
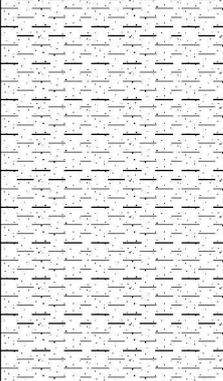
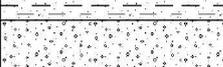
Plant Used:
Rubber Duck

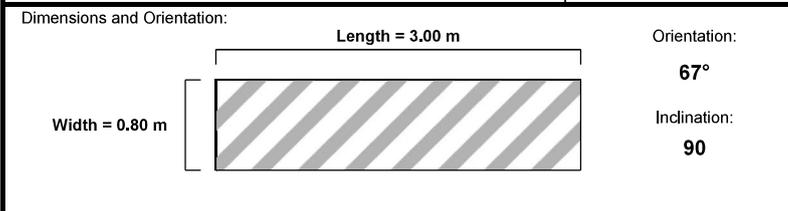
Logged:
LB

Checked:
LM

Approved:
DJ

Scale:
1:30

Description of Strata	Legend	Strata Depth (m)	Reduced Level (mAOD)	Water Strike (m)	Sample Details		Test Details	
					Depth (m)	Type & Ref	Depth (m)	Results
MADE GROUND: Grass over brown sandy gravelly CLAY with occasional rootlets, low cobble content and rare glass. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of sandstone and red brick fragments. Cobbles are subangular of sandstone, red bricks and concrete. (TOPSOIL)		0.30	159.60	2.40	0.30	ES1	2.00	HV=102 kPa
Soft to firm orange mottled brown sandy CLAY. Sand is fine to coarse. (WEATHERED STANNINGLEY ROCK SANDSTONE)		0.60	159.30					
Brown slightly gravelly slightly clayey fine to coarse SAND. Gravel is angular to subrounded fine to coarse of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		0.80	159.10					
Stiff brown mottled grey slightly sandy CLAY. Sand is fine to coarse. (WEATHERED STANNINGLEY ROCK SANDSTONE)		2.45	157.45					
Weathered sandstone recovered as slightly sandy angular to subangular fine to coarse GRAVEL of sandstone with medium cobble content. Sand is fine to coarse. Cobbles are angular to subrounded of sandstone. (WEATHERED STANNINGLEY ROCK SANDSTONE)		2.65	157.25					
Trial pit complete at 2.65 m bgl.								



Remarks:

1. Logged in general accordance with BS 5930:2015+A1:2020. Consistency is based on finger test as defined by BS EN ISO 14688-1:2002.
2. Trial pit location cleared for services prior to breaking ground.
3. Elevation and location data obtained from GPS survey.
4. Trial pit terminated at 2.65 m bgl on weathered bedrock.
5. Groundwater encountered at 2.40 m bgl.

Appendix C – Soil Chemical Analysis Results



Luke Barber
Delta-Simons
Suite C1
Joseph's Well
Hanover Walk
Leeds
LS3 1AB

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

Redacted
e:

t: Redacted
f:
e:

Analytical Report Number : 21-21865

Project / Site name:	Newsome Mills	Samples received on:	09/11/2021
Your job number:	21-1514 01	Samples instructed on/ Analysis started on:	10/11/2021
Your order number:	DS64554	Analysis completed by:	17/11/2021
Report Issue Number:	1	Report issued on:	17/11/2021
Samples Analysed:	16 soil samples		

Redacted

Signed: _____

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
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

Excel copies of reports are only valid when accompanied by this PDF certificate.

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: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number	2077356				2077357		2077358		2077359		2077360	
Sample Reference	TP101				TP102		TP103		TP104		TP105	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.50				1.20		0.60		0.10		0.80	
Date Sampled	04/11/2021				04/11/2021		04/11/2021		04/11/2021		04/11/2021	
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	31	16	32	41	15				
Moisture Content	%	0.01	NONE	11	15	11	5.4	14				
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0				

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	Crocidolite
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	< 0.001
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	< 0.001

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.1	7.5	8.3	9.0	8.3
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	3500	760	190	130	480
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.8	0.38	0.095	0.066	0.24
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1750	380	95.0	66.1	242

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.69	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.66	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	6.6	0.57	2.2	1.8	1.7
Anthracene	mg/kg	0.05	MCERTS	1.9	< 0.05	0.53	0.57	0.45
Fluoranthene	mg/kg	0.05	MCERTS	9.1	0.50	3.9	4.2	3.6
Pyrene	mg/kg	0.05	MCERTS	8.0	0.52	3.8	4.2	3.6
Benzo(a)anthracene	mg/kg	0.05	MCERTS	3.9	0.31	2.4	2.4	2.1
Chrysene	mg/kg	0.05	MCERTS	3.6	0.43	2.0	2.2	1.9
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	3.1	0.40	2.7	2.7	2.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	3.0	0.44	1.5	2.6	1.7
Benzo(a)pyrene	mg/kg	0.05	MCERTS	3.4	0.32	2.5	3.2	2.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.7	0.31	1.4	2.1	1.2
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.49	< 0.05	0.43	0.52	0.35
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.9	0.41	1.7	2.7	1.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	48.0	4.21	25.2	29.2	22.3
-----------------------------	-------	-----	--------	------	------	------	------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	380	220	15	8.3	25
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	1.5	0.8	1.9
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	440	74	50	70	42
Copper (aqua regia extractable)	mg/kg	1	MCERTS	620	270	56	47	110
Lead (aqua regia extractable)	mg/kg	1	MCERTS	1400	2300	150	75	400
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	4.6	< 0.3	< 0.3	< 0.3	0.9
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	84	100	25	26	24
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	740	400	230	83	330

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number	2077356			2077357			2077358			2077359			2077360		
Sample Reference	TP101			TP102			TP103			TP104			TP105		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.50			1.20			0.60			0.10			0.80		
Date Sampled	04/11/2021			04/11/2021			04/11/2021			04/11/2021			04/11/2021		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	4.8	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	25	< 8.0	15	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	250	< 8.0	64	71	27
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	34	< 10	34	40	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	280	< 10	80	76	29

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	2.1	1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	7.6	< 2.0	6.6	< 2.0	3.7
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	30	< 10	25	19	13
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	120	< 10	180	200	46
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	25	< 10	140	150	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	150	< 10	210	220	62

TPH (C35 - C40)	mg/kg	10	MCERTS	59	< 10	170	190	< 10
-----------------	-------	----	--------	----	------	-----	-----	------

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number	2077361				2077362		2077363		2077364		2077365	
Sample Reference	TP106				TP107		TP108		TP109		TP110	
Sample Number	None Supplied				None Supplied		None Supplied		None Supplied		None Supplied	
Depth (m)	0.40				0.20		0.50		3.90		0.50	
Date Sampled	04/11/2021				04/11/2021		04/11/2021		04/11/2021		04/11/2021	
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	40	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	30	
Moisture Content	%	0.01	NONE	11	19	18	25	25	13	13	13	
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	Chrysotile	-	Chrysotile & Amosite	Chrysotile & Amosite
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Detected	Not-detected	Detected	Detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	< 0.001	-	0.240	0.002
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	< 0.001	-	0.240	0.002

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	7.9	8.5	7.4	9.0
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	890	870	1100	3800	140
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.44	0.43	0.56	1.9	0.071
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	445	435	565	1920	70.7

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.2	1.9	< 0.05	0.65	1.1
Anthracene	mg/kg	0.05	MCERTS	0.24	0.41	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	2.6	3.5	< 0.05	0.84	1.9
Pyrene	mg/kg	0.05	MCERTS	2.6	3.5	< 0.05	0.99	1.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	2.0	< 0.05	0.51	1.1
Chrysene	mg/kg	0.05	MCERTS	1.4	1.6	< 0.05	0.68	1.1
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.5	2.1	< 0.05	0.64	1.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.2	1.6	< 0.05	0.36	0.74
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.5	2.1	< 0.05	0.57	1.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.81	1.1	< 0.05	0.27	0.59
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.22	0.32	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.99	1.2	< 0.05	< 0.05	0.64

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	15.7	21.4	< 0.80	5.51	11.2
-----------------------------	-------	-----	--------	------	------	--------	------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	18	28	31	16
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	1.4	1.0	< 0.2	< 0.2	1.7
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	51	20	44	42
Copper (aqua regia extractable)	mg/kg	1	MCERTS	82	68	87	82	140
Lead (aqua regia extractable)	mg/kg	1	MCERTS	290	300	16	1100	440
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	3.9	0.5
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	21	23	45	33	19
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	260	230	70	240	290

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number	2077361				2077362				2077363				2077364				2077365			
Sample Reference	TP106				TP107				TP108				TP109				TP110			
Sample Number	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Depth (m)	0.40				0.20				0.50				3.90				0.50			
Date Sampled	04/11/2021				04/11/2021				04/11/2021				04/11/2021				04/11/2021			
Time Taken	None Supplied				None Supplied				None Supplied				None Supplied				None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status																	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	7.1	< 2.0	7.4	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	16	< 8.0	28	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	80	< 8.0	130	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	< 10	24	< 10	30	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	100	< 10	170	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	3.2	< 2.0	2.1	3.3
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	14	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	18	56	< 10	53	17
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10	24	< 10	23	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	25	74	< 10	63	27

TPH (C35 - C40)	mg/kg	10	MCERTS	< 10	47	< 10	53	< 10
-----------------	-------	----	--------	------	----	------	----	------

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number				2077366	2077367	2077368	2077369	2077370
Sample Reference				TP111	TP112	TP113	TP114	TP115
Sample Number				None Supplied				
Depth (m)				0.20	0.10	0.10	0.50	0.10
Date Sampled				04/11/2021	04/11/2021	05/11/2021	05/11/2021	05/11/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	57	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	18	15	20	9.8
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0

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	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.0	9.3	9.0	8.8	8.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1300	420	370	910	130
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.64	0.21	0.19	0.45	0.067
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	637	208	187	453	66.5

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.45	0.43	0.76	0.66	0.63
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.71	0.63	1.2	0.81	0.61
Pyrene	mg/kg	0.05	MCERTS	0.70	0.65	1.2	0.91	0.66
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.39	0.38	0.60	0.76	0.50
Chrysene	mg/kg	0.05	MCERTS	0.50	0.39	0.61	0.79	0.62
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.47	0.49	0.55	0.93	0.47
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.23	0.18	0.30	0.49	0.36
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.36	0.34	0.49	0.65	0.36
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.18	< 0.05	0.21	0.31	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.22	< 0.05	0.30	0.39	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	4.21	3.49	6.23	6.70	4.21
-----------------------------	-------	-----	--------	------	------	------	------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	26	16	19	15	20
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	8.0
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	45	27	22	21	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	69	62	80	110	59
Lead (aqua regia extractable)	mg/kg	1	MCERTS	390	160	330	790	270
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	22	24	22	38
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	170	110	210	330	190

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
o-xylene	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number				2077366	2077367	2077368	2077369	2077370
Sample Reference				TP111	TP112	TP113	TP114	TP115
Sample Number				None Supplied				
Depth (m)				0.20	0.10	0.10	0.50	0.10
Date Sampled				04/11/2021	04/11/2021	05/11/2021	05/11/2021	05/11/2021
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	6.8	< 2.0	< 2.0	< 2.0	10
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	18	< 8.0	10	8.3	64
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	74	< 8.0	49	74	270
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	16	< 10	12	< 10	14
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	99	< 10	59	82	340

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	2.8	< 2.0	< 2.0	< 2.0	4.6
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	18
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	25	< 10	28	34	100
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10	< 10	< 10	10	14
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	34	< 10	36	43	130

TPH (C35 - C40)	mg/kg	10	MCERTS	24	< 10	21	18	27
-----------------	-------	----	--------	----	------	----	----	----

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number				2077371
Sample Reference				TP116
Sample Number				None Supplied
Depth (m)				0.30
Date Sampled				05/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	
Stone Content	%	0.1	NONE	32
Moisture Content	%	0.01	NONE	13
Total mass of sample received	kg	0.001	NONE	1.0

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

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	150
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.075
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	75.3

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.46
Anthracene	mg/kg	0.05	MCERTS	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.89
Pyrene	mg/kg	0.05	MCERTS	0.89
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.63
Chrysene	mg/kg	0.05	MCERTS	0.62
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.55
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.54
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.51
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.26
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.32

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	5.67
-----------------------------	-------	-----	--------	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	57
Lead (aqua regia extractable)	mg/kg	1	MCERTS	450
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	180

Monoaromatics & Oxygenates

Benzene	mg/kg	0.001	MCERTS	< 0.001
Toluene	mg/kg	0.001	MCERTS	< 0.001
Ethylbenzene	mg/kg	0.001	MCERTS	< 0.001
p & m-xylene	mg/kg	0.001	MCERTS	< 0.001
o-xylene	mg/kg	0.001	MCERTS	< 0.001
MTBE (Methyl Tertiary Butyl Ether)	mg/kg	0.001	MCERTS	< 0.001

Analytical Report Number: 21-21865
 Project / Site name: Newsome Mills
 Your Order No: DS64554

Lab Sample Number				2077371
Sample Reference				TP116
Sample Number				None Supplied
Depth (m)				0.30
Date Sampled				05/11/2021
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status	

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0
TPH-CWG - Aliphatic >EC35 - EC40	mg/kg	10	NONE	< 10
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic >EC35 - EC40	mg/kg	10	NONE	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10

TPH (C35 - C40)	mg/kg	10	MCERTS	< 10
-----------------	-------	----	--------	------

U/S = Unsuitable Sample I/S = Insufficient Sample



Analytical Report Number: 21-21865
Project / Site name: Newsome Mills
Your Order No: DS64554

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
2077360	TP105	0.80	137	Loose Fibres	Crocidolite	< 0.001	< 0.001
2077361	TP106	0.40	132	Loose Fibres	Chrysotile	< 0.001	< 0.001
2077362	TP107	0.20	105	Loose Fibres	Chrysotile	< 0.001	< 0.001
2077364	TP109	3.90	126	Loose Fibrous Debris	Chrysotile & Amosite	0.240	0.240
2077365	TP110	0.50	140	Loose Fibres	Chrysotile & Amosite	0.002	0.002

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

Analytical Report Number : 21-21865

Project / Site name: Newsome Mills

* 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 *
2077356	TP101	None Supplied	0.5	Brown loam and sand with stones and vegetation.
2077357	TP102	None Supplied	1.2	Brown loam and sand with stones and vegetation.
2077358	TP103	None Supplied	0.6	Brown loam and clay with concrete and vegetation.
2077359	TP104	None Supplied	0.1	Brown loam and clay with stones and vegetation.
2077360	TP105	None Supplied	0.8	Brown clay and loam with stones and brick.
2077361	TP106	None Supplied	0.4	Brown clay and loam with stones and vegetation.
2077362	TP107	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2077363	TP108	None Supplied	0.5	Brown loam and sand with rubble and tar.
2077364	TP109	None Supplied	3.9	Brown clay and loam with vegetation and brick.
2077365	TP110	None Supplied	0.5	Brown clay and loam with rubble and brick.
2077366	TP111	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2077367	TP112	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2077368	TP113	None Supplied	0.1	Brown clay and loam with gravel and stones.
2077369	TP114	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2077370	TP115	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2077371	TP116	None Supplied	0.3	Brown clay and loam with gravel and stones.

Analytical Report Number : 21-21865
Project / Site name: Newsome Mills

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

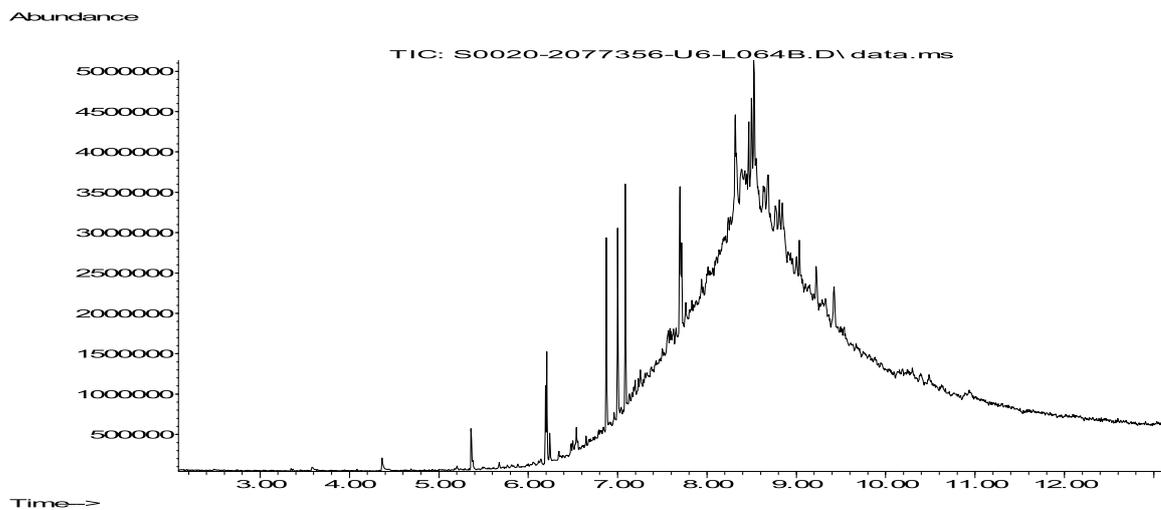
Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination 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
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disper staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
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	L080-PL	W	MCERTS
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.	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
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
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
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
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
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
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
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

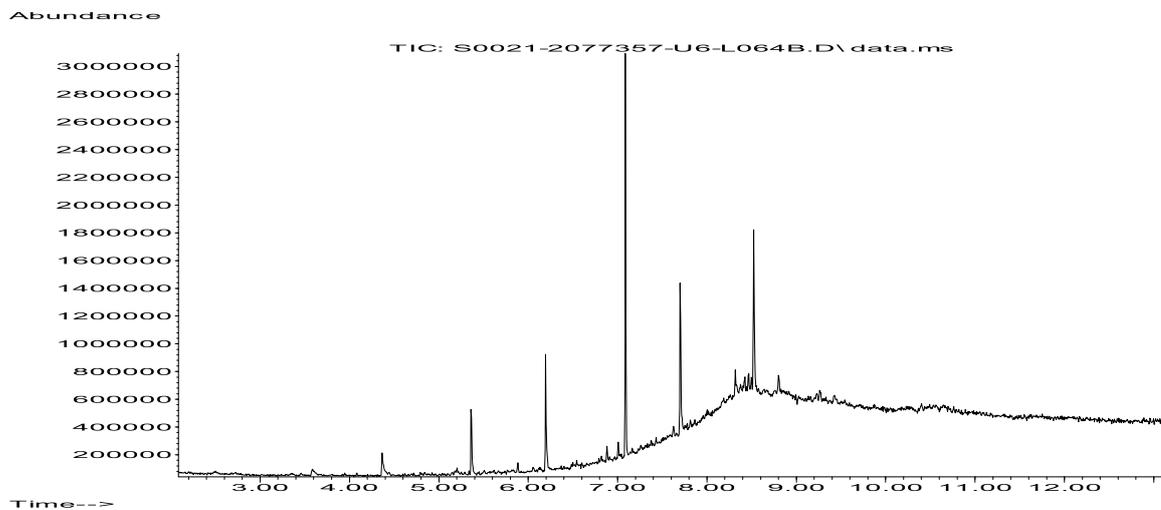
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

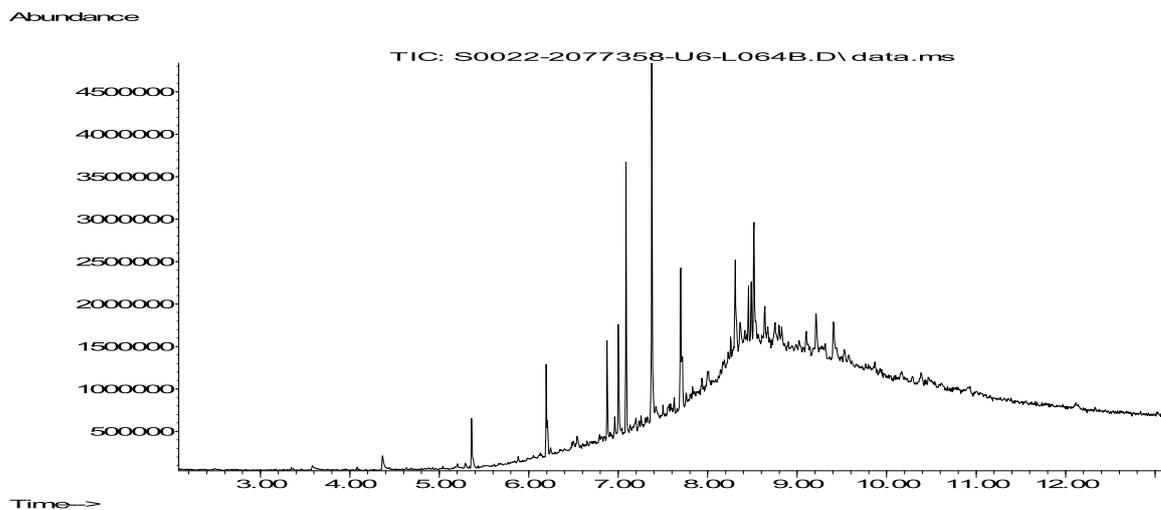
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

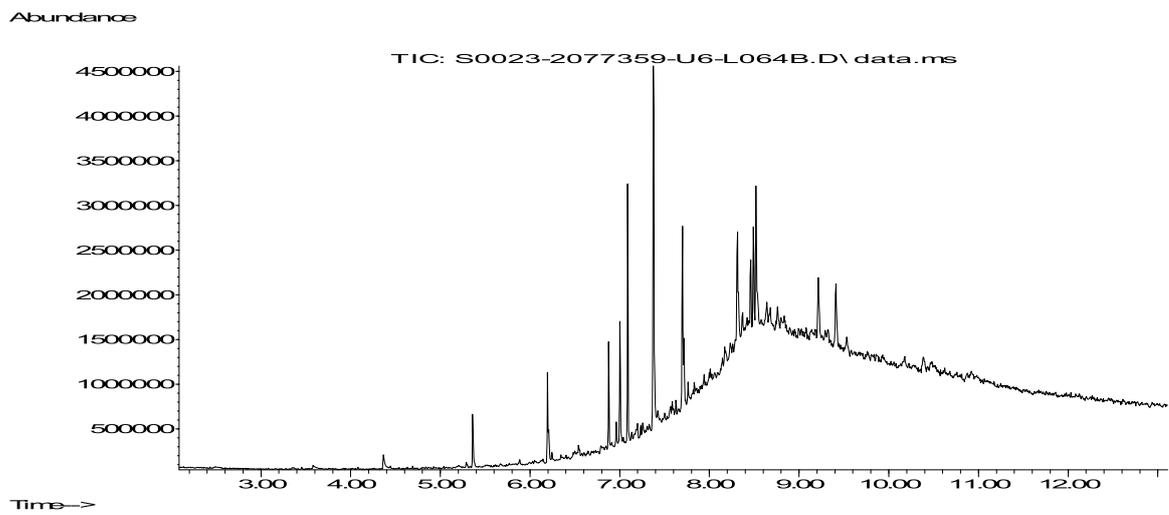
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

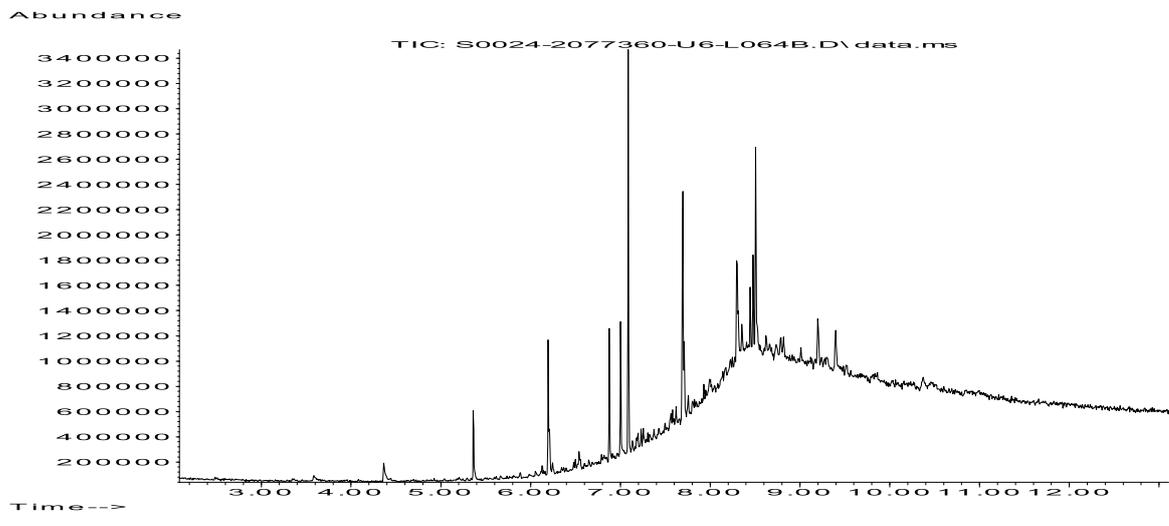
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

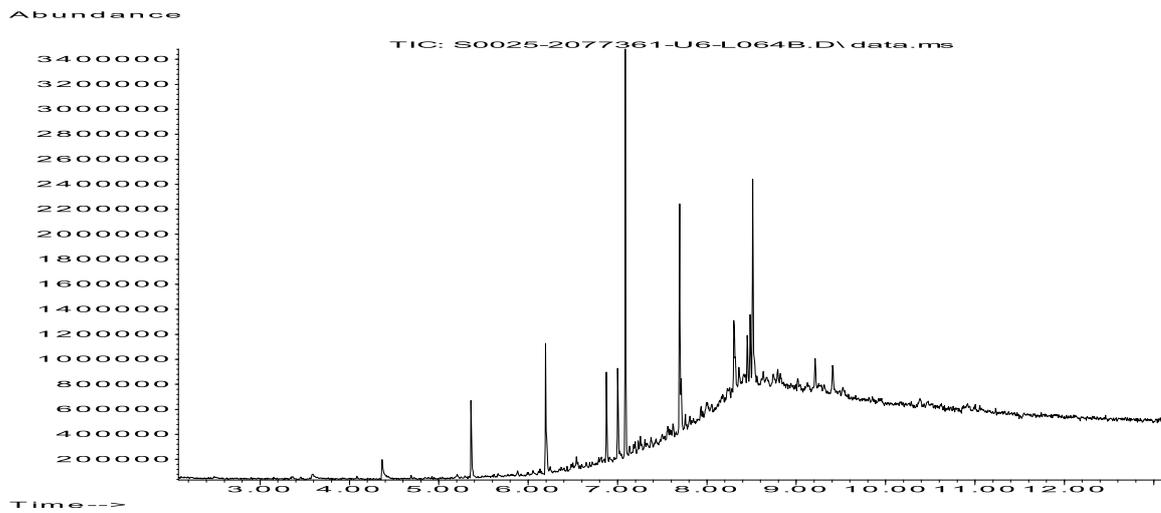


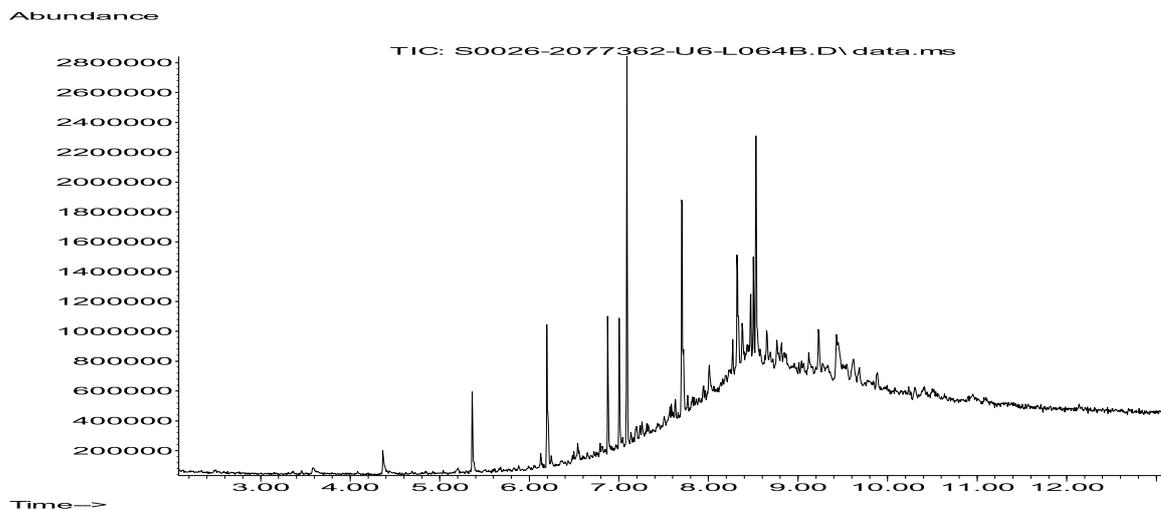


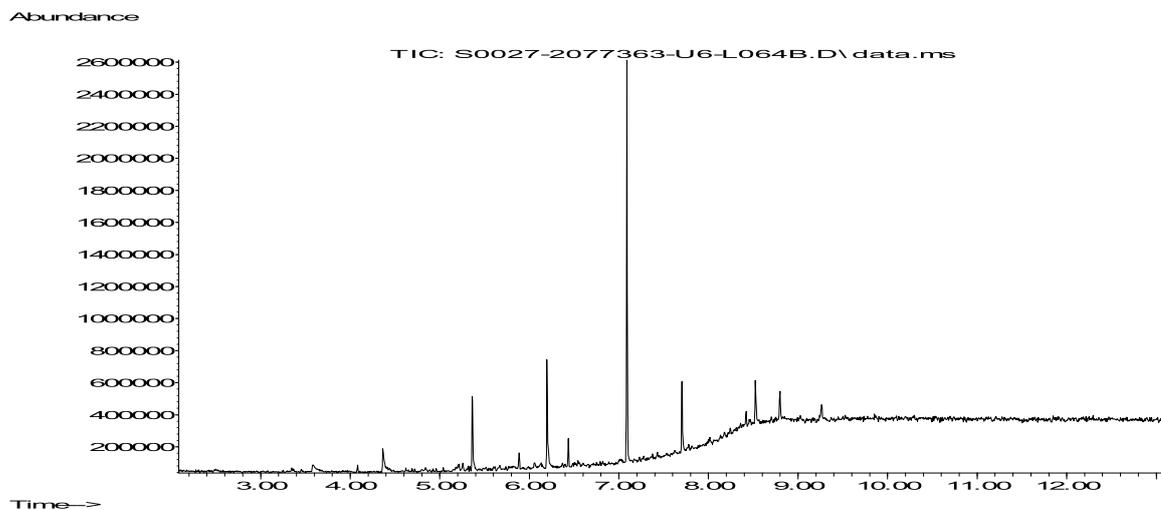


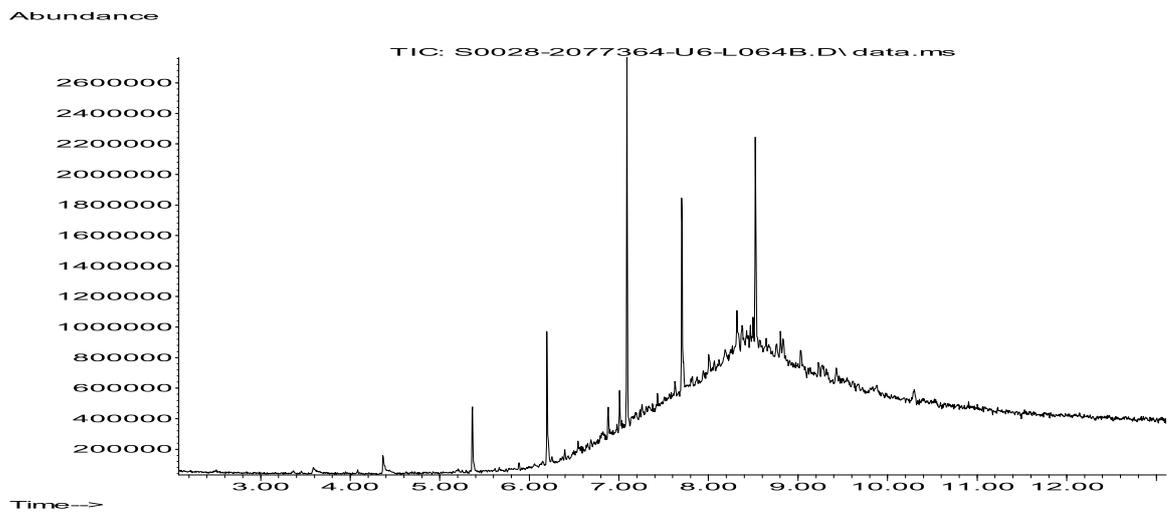






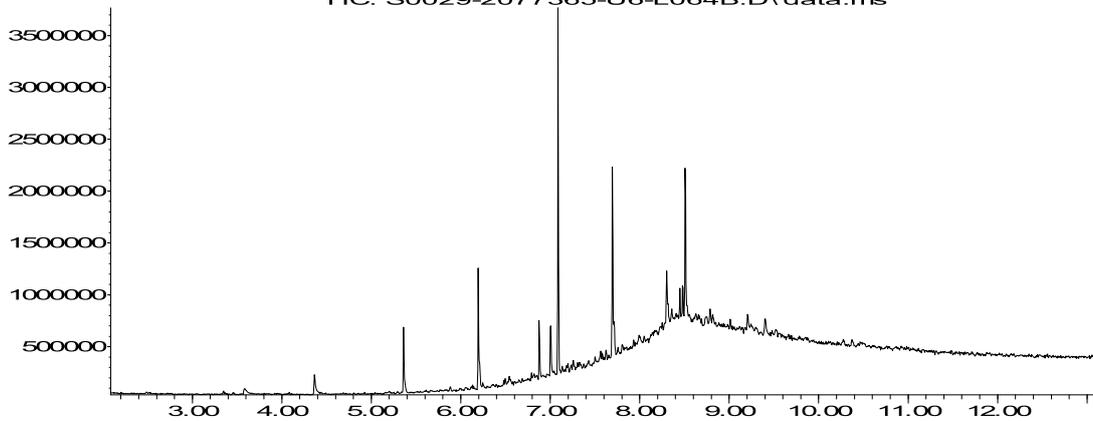




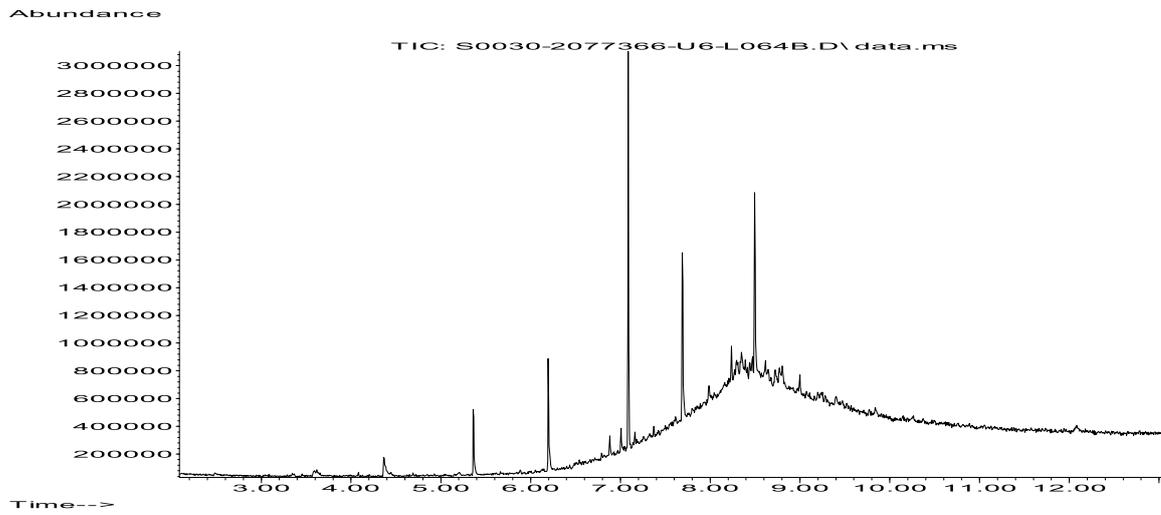


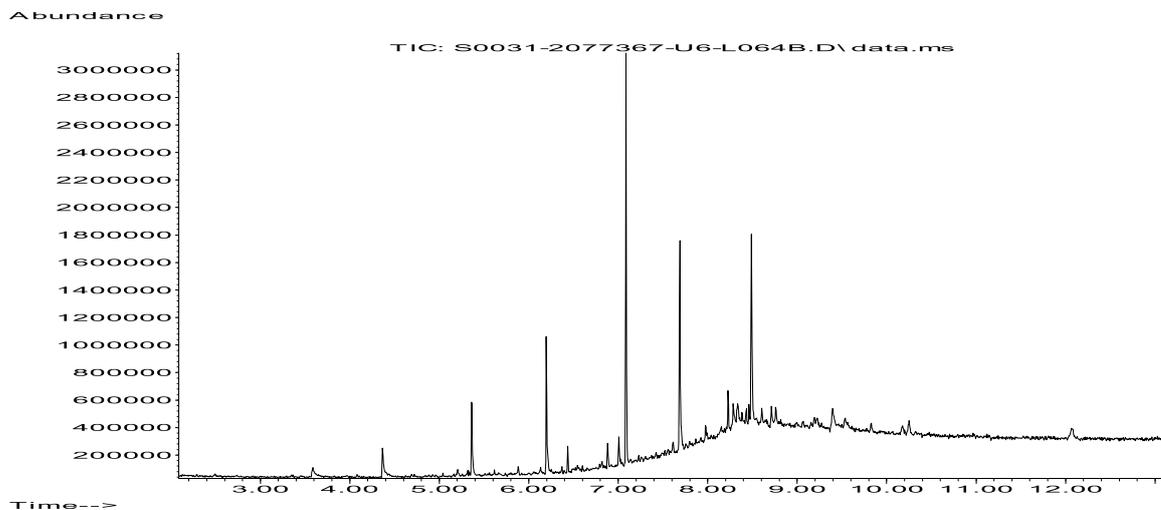
Abundance

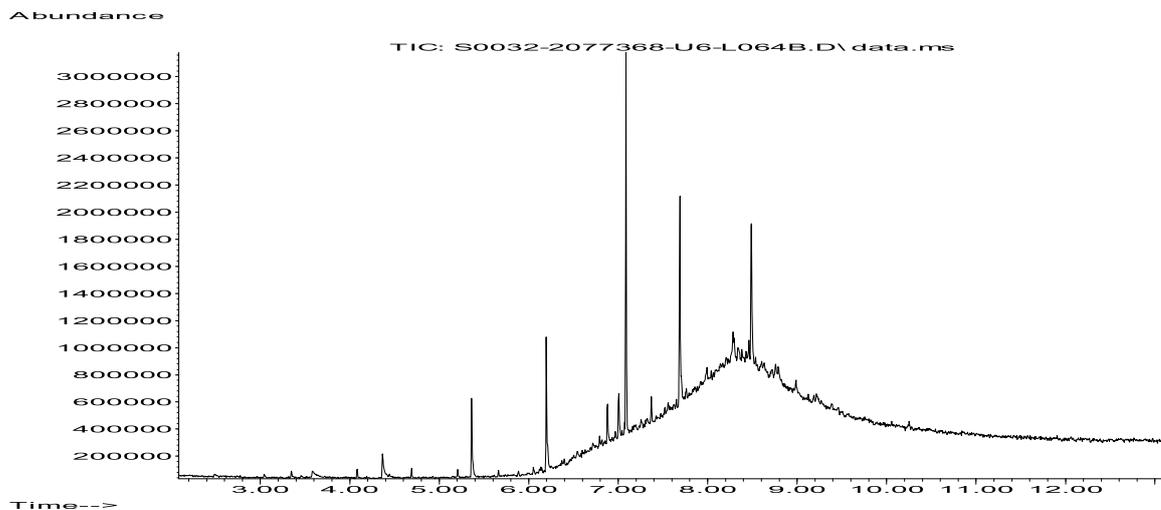
TIC: S0029-2077365-U6-L064B.D\data.ms

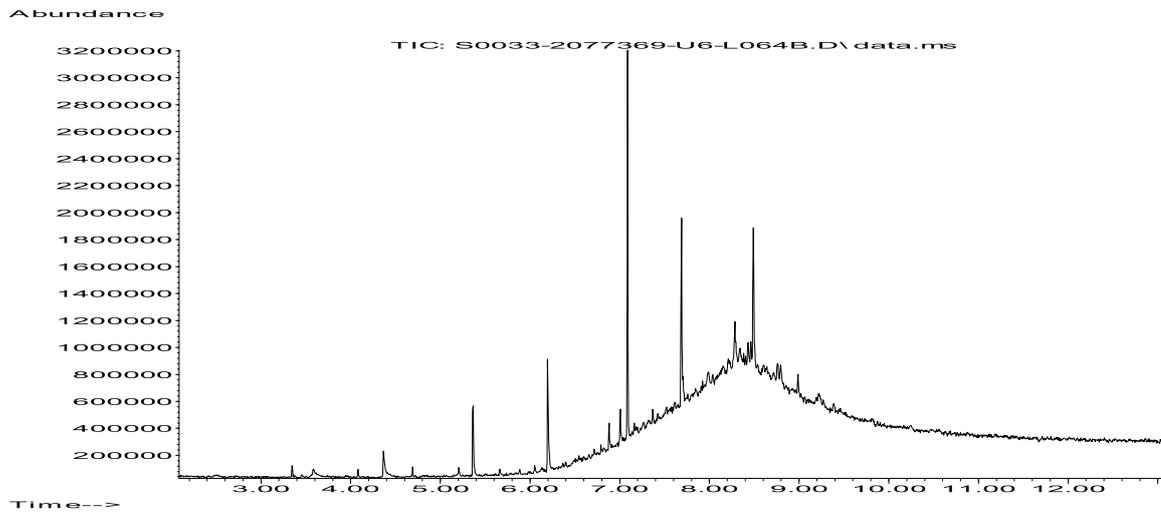


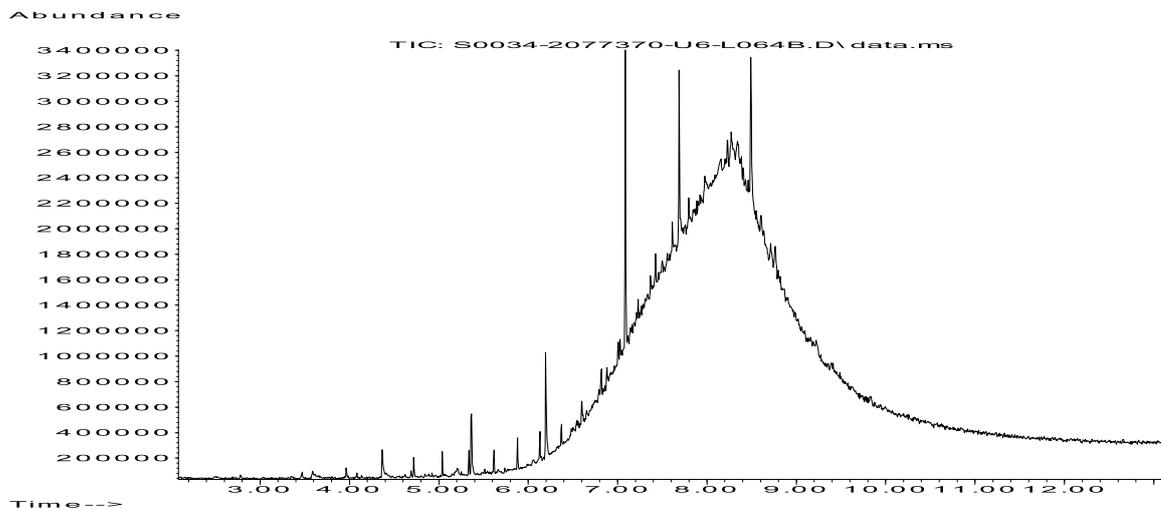
Time-->





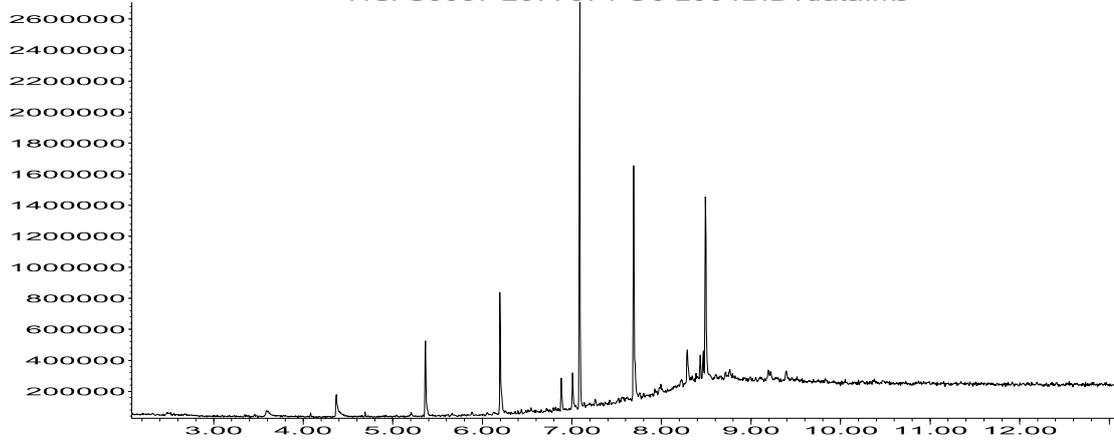






Abundance

TIC: S0037-2077371-U6-L064B.D\data.ms



Time-->



Luke Barber
Delta-Simons
Suite C1
Joseph's Well
Hanover Walk
Leeds
LS3 1AB

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

Redacted
e:

Redacted
t
f
e

Analytical Report Number : 21-21869

Project / Site name:	Newsome Mills	Samples received on:	09/11/2021
Your job number:	21-1514 01	Samples instructed on/ Analysis started on:	10/11/2021
Your order number:	DS64554	Analysis completed by:	17/11/2021
Report Issue Number:	1	Report issued on:	17/11/2021
Samples Analysed:	5 10:1 WAC samples		

Redacted

Signed: _____

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)
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

Excel copies of reports are only valid when accompanied by this PDF certificate.

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.

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	21-21869						
				Client: DELTASIM			
Location	Newsome Mills						
Lab Reference (Sample Number)	2077382 / 2077383			Landfill Waste Acceptance Criteria			
Sampling Date	04/11/2021			Limits			
Sample ID	TP103			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	0.60						
Solid Waste Analysis							
TOC (%)**	4.0			3%	5%	6%	
Loss on Ignition (%) **	7.9			--	--	10%	
BTEX (µg/kg) **	< 10			6000	--	--	
Sum of PCBs (mg/kg) **	< 0.007			1	--	--	
Mineral Oil (mg/kg)	< 10			500	--	--	
Total PAH (WAC-17) (mg/kg)	23.1			100	--	--	
pH (units)**	8.2			--	>6	--	
Acid Neutralisation Capacity (mol / kg)	7.9			--	To be evaluated	To be evaluated	
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1		10:1	Limit values for compliance leaching test			
	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	0,0043		0,0373	0,5	2	25	
Barium *	0,0403		0,347	20	100	300	
Cadmium *	< 0,0001		< 0,0008	0,04	1	5	
Chromium *	0,0025		0,021	0,5	10	70	
Copper *	0,0073		0,063	2	50	100	
Mercury *	< 0,0005		< 0,0050	0,01	0,2	2	
Molybdenum *	0,0055		0,0474	0,5	10	30	
Nickel *	0,0054		0,046	0,4	10	40	
Lead *	0,0037		0,032	0,5	10	50	
Antimony *	< 0,0017		< 0,017	0,06	0,7	5	
Selenium *	< 0,0040		< 0,040	0,1	0,5	7	
Zinc *	0,0062		0,054	4	50	200	
Chloride *	0,90		7,7	800	15000	25000	
Fluoride	0,54		4,6	10	150	500	
Sulphate *	9,2		80	1000	20000	50000	
TDS*	120		1100	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0,010		< 0,10	1	-	-	
DOC	9,25		79,7	500	800	1000	
Leach Test Information							
Stone Content (%)	32						
Sample Mass (kg)	1,0						
Dry Matter (%)	89						
Moisture (%)	11						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation. ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	21-21869						
				Client: DELTASIM			
Location		Newsome Mills					
Lab Reference (Sample Number)		2077384 / 2077385					
Sampling Date		04/11/2021					
Sample ID		TP106					
Depth (m)		0.40					
				Landfill Waste Acceptance Criteria			
				Limits			
				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Solid Waste Analysis							
TOC (%)**	1.3				3%	5%	6%
Loss on Ignition (%) **	4.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	12.2				100	--	--
pH (units)**	8.2				--	>6	--
Acid Neutralisation Capacity (mol / kg)	12				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0022			0.0189	0.5	2	25
Barium *	0.0437			0.372	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0019			0.016	0.5	10	70
Copper *	0.0054			0.046	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0072			0.0609	0.5	10	30
Nickel *	0.0038			0.032	0.4	10	40
Lead *	0.0021			0.018	0.5	10	50
Antimony *	< 0.0017			< 0.017	0.06	0.7	5
Selenium *	< 0.0040			< 0.040	0.1	0.5	7
Zinc *	0.0062			0.053	4	50	200
Chloride *	1.3			11	800	15000	25000
Fluoride	0.54			4.6	10	150	500
Sulphate *	500			4300	1000	20000	50000
TDS*	400			3400	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	4.56			38.8	500	800	1000
Leach Test Information							
Stone Content (%)	40						
Sample Mass (kg)	1.0						
Dry Matter (%)	89						
Moisture (%)	11						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation. ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	21-21869						
				Client: DELTASIM			
Location	Newsome Mills						
Lab Reference (Sample Number)	2077386 / 2077387			Landfill Waste Acceptance Criteria			
Sampling Date	04/11/2021			Limits			
Sample ID	TP109			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Depth (m)	3.90						
Solid Waste Analysis							
TOC (%)**	2.1			3%	5%	6%	
Loss on Ignition (%) **	6.3			--	--	10%	
BTEX (µg/kg) **	< 10			6000	--	--	
Sum of PCBs (mg/kg) **	0.21			1	--	--	
Mineral Oil (mg/kg)	170			500	--	--	
Total PAH (WAC-17) (mg/kg)	5.19			100	--	--	
pH (units)**	7.8			--	>6	--	
Acid Neutralisation Capacity (mol / kg)	11			--	To be evaluated	To be evaluated	
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1		10:1	Limit values for compliance leaching test			
	mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	0,0085		0,0666	0,5	2	25	
Barium *	0,0538		0,423	20	100	300	
Cadmium *	0,0002		0,0016	0,04	1	5	
Chromium *	0,0005		0,0041	0,5	10	70	
Copper *	0,0053		0,042	2	50	100	
Mercury *	< 0,0005		< 0,0050	0,01	0,2	2	
Molybdenum *	0,0137		0,108	0,5	10	30	
Nickel *	0,0066		0,052	0,4	10	40	
Lead *	0,0027		0,021	0,5	10	50	
Antimony *	< 0,0017		< 0,017	0,06	0,7	5	
Selenium *	< 0,0040		< 0,040	0,1	0,5	7	
Zinc *	0,068		0,54	4	50	200	
Chloride *	1,8		14	800	15000	25000	
Fluoride	0,37		2,9	10	150	500	
Sulphate *	540		4200	1000	20000	50000	
TDS*	470		3700	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0,010		< 0,10	1	-	-	
DOC	8,68		68,3	500	800	1000	
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1,0						
Dry Matter (%)	75						
Moisture (%)	25						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation. ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	21-21869						
				Client: DELTASIM			
Location		Newsome Mills					
Lab Reference (Sample Number)		2077388 / 2077389					
Sampling Date		05/11/2021					
Sample ID		TP113					
Depth (m)		0.10					
				Landfill Waste Acceptance Criteria			
				Limits			
				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Solid Waste Analysis							
TOC (%)**	2.0				3%	5%	6%
Loss on Ignition (%) **	6.3				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.007				1	--	--
Mineral Oil (mg/kg)	84				500	--	--
Total PAH (WAC-17) (mg/kg)	4.90				100	--	--
pH (units)**	8.9				--	>6	--
Acid Neutralisation Capacity (mol / kg)	20				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)		10:1		10:1	Limit values for compliance leaching test		
		mg/l		mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0065		0.0520	0.5	2	25	
Barium *	0.0919		0.734	20	100	300	
Cadmium *	< 0.0001		< 0.0008	0.04	1	5	
Chromium *	0.0029		0.023	0.5	10	70	
Copper *	0.0088		0.070	2	50	100	
Mercury *	< 0.0005		< 0.0050	0.01	0.2	2	
Molybdenum *	0.0047		0.0372	0.5	10	30	
Nickel *	0.0047		0.037	0.4	10	40	
Lead *	0.012		0.094	0.5	10	50	
Antimony *	0.0093		0.074	0.06	0.7	5	
Selenium *	< 0.0040		< 0.040	0.1	0.5	7	
Zinc *	0.024		0.19	4	50	200	
Chloride *	3.2		26	800	15000	25000	
Fluoride	0.29		2.3	10	150	500	
Sulphate *	19		150	1000	20000	50000	
TDS*	130		1000	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010		< 0.10	1	-	-	
DOC	7.09		56.6	500	800	1000	
Leach Test Information							
Stone Content (%)	57						
Sample Mass (kg)	1.0						
Dry Matter (%)	85						
Moisture (%)	15						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation. ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical

7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:		21-21869					
					Client: DELTASIM		
Location		Newsome Mills					
Lab Reference (Sample Number)		2077390 / 2077391			Landfill Waste Acceptance Criteria		
Sampling Date		05/11/2021			Limits		
Sample ID		TP116			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)		0.30					
Solid Waste Analysis							
TOC (%)**	2.2				3%	5%	6%
Loss on Ignition (%) **	6.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0,007				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	4.27				100	--	--
pH (units)**	8.5				--	>6	--
Acid Neutralisation Capacity (mol / kg)	9.5				--	To be evaluated	To be evaluated
Eluate Analysis							
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1			10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0,0057			0,0478	0,5	2	25
Barium *	0,0446			0,376	20	100	300
Cadmium *	< 0,0001			< 0,0008	0,04	1	5
Chromium *	0,0018			0,015	0,5	10	70
Copper *	0,0049			0,042	2	50	100
Mercury *	< 0,0005			< 0,0050	0,01	0,2	2
Molybdenum *	0,0078			0,0657	0,5	10	30
Nickel *	0,0046			0,039	0,4	10	40
Lead *	0,0074			0,062	0,5	10	50
Antimony *	< 0,0017			< 0,017	0,06	0,7	5
Selenium *	< 0,0040			< 0,040	0,1	0,5	7
Zinc *	0,011			0,092	4	50	200
Chloride *	0,97			8,1	800	15000	25000
Fluoride	0,49			4,1	10	150	500
Sulphate *	8,3			70	1000	20000	50000
TDS*	98			820	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0,010			< 0,10	1	-	-
DOC	6,13			51,6	500	800	1000
Leach Test Information							
Stone Content (%)	32						
Sample Mass (kg)	1,0						
Dry Matter (%)	87						
Moisture (%)	13						
Results are expressed on a dry weight basis, after correction for moisture content where applicable. * = UKAS accredited (liquid eluate analysis only)							
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation. ** = MCERTS accredited							

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 21-21869
Project / Site name: Newsome Mills

* 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 *
2077382	TP103	None Supplied	0.6	Brown loam and clay with concrete and vegetation.
2077384	TP106	None Supplied	0.4	Brown clay and loam with stones and vegetation.
2077386	TP109	None Supplied	3.9	Brown clay and loam with vegetation and brick.
2077388	TP113	None Supplied	0.1	Brown clay and loam with gravel and stones.
2077390	TP116	None Supplied	0.3	Brown clay and loam with gravel and stones.

Analytical Report Number : 21-21869
Project / Site name: Newsome Mills

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as received, 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
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance""	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil (Soil) C10 - C40	Determination of mineral oil fraction extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L076-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically, (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated WAC-17 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.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	NONE
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH at 20oC in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS
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
Total organic carbon (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
BTEX in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073-PL	W	MCERTS
Metals in leachate by ICP-OES	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
Chloride 10:1 WAC	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride 10:1 WAC	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Sulphate 10:1 WAC	Determination of sulphate in leachate by ICP-OES	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Total dissolved solids 10:1 WAC	Determination of total dissolved solids in water by EC probe using a factor of 0.6.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L004-PL	W	ISO 17025



Analytical Report Number : 21-21869
Project / Site name: Newsome Mills

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Monohydric phenols 10:1 WAC	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	ISO 17025
Dissolved organic carbon 10:1 WAC	Determination of dissolved inorganic carbon in leachate by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' 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 30oC.

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.

Appendix D – Geotechnical Analysis Results



TEST CERTIFICATE

Particle Size Distribution

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons
Client Address: Suite C1, Joseph's Well,
Hanover Walk, Leeds,
LS3 1AB
Contact: Luke Barber
Site Address: Newsome Mills

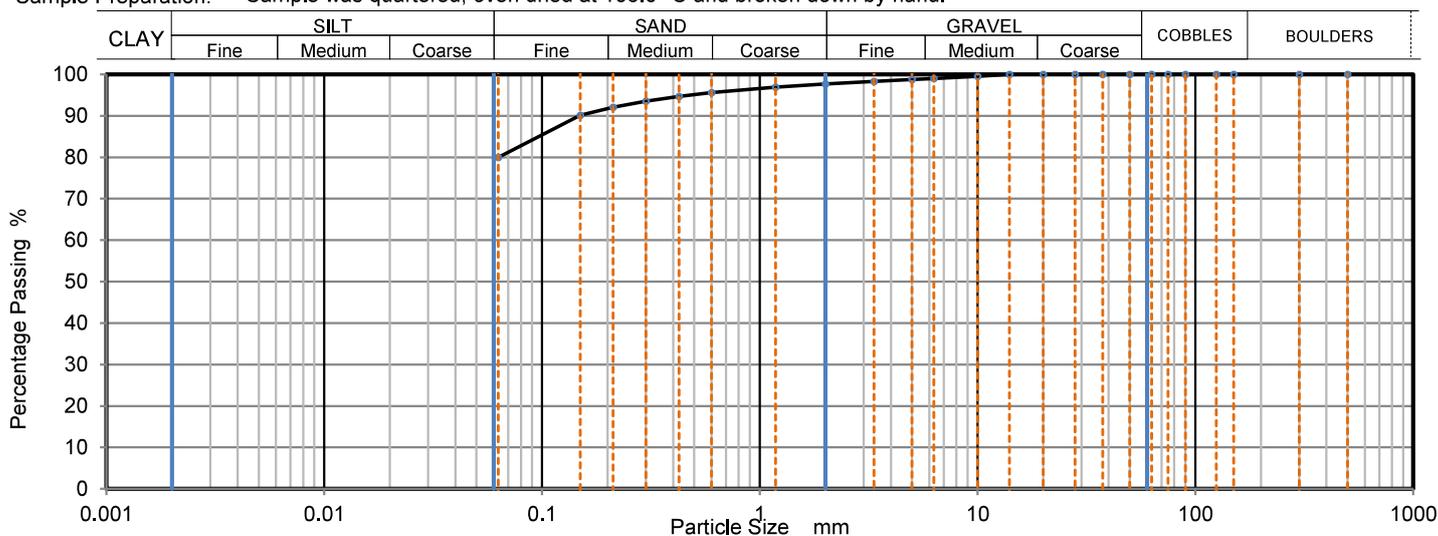
Client Reference: 21 1514 01
Job Number: 21-22164
Date Sampled: Not Given
Date Received: 09/11/2021
Date Tested: 19/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2078856
Hole No.: TP114
Sample Reference: Not Given
Sample Description: Light brown slightly gravelly sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 1.00
Depth Base [m]: 1.50
Sample Type: B





TEST CERTIFICATE

Particle Size Distribution

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons
Client Address: Suite C1, Joseph's Well,
Hanover Walk, Leeds,
LS3 1AB
Contact: Luke Barber
Site Address: Newsome Mills

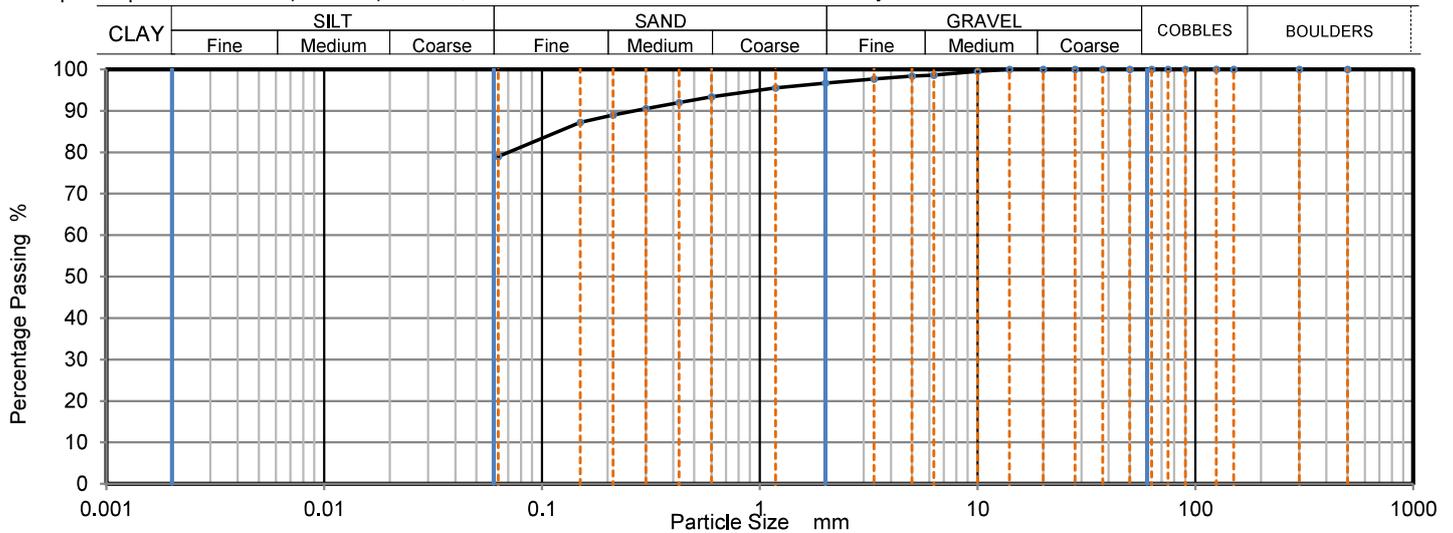
Client Reference: 21 1514 01
Job Number: 21-22164
Date Sampled: Not Given
Date Received: 09/11/2021
Date Tested: 19/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2078857
Hole No.: TP113
Sample Reference: Not Given
Sample Description: Light brown mottled grey slightly gravelly sandy CLAY
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 0.50
Depth Base [m]: 1.00
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	98		
3.35	98		
2	97		
1.18	96		
0.6	93		
0.425	92		
0.3	91		
0.212	89		
0.15	87		
0.063	80		

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	17
Fines <0.063mm	80

Grading Analysis		
D100	mm	14
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		N/A
Curvature Coefficient		

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:
Redacted

Monika Janoszek
PL Deputy Geotechnical Laboratory Manager
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



TEST CERTIFICATE

Particle Size Distribution

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons
Client Address: Suite C1, Joseph's Well,
Hanover Walk, Leeds,
LS3 1AB

Contact: Luke Barber
Site Address: Newsome Mills

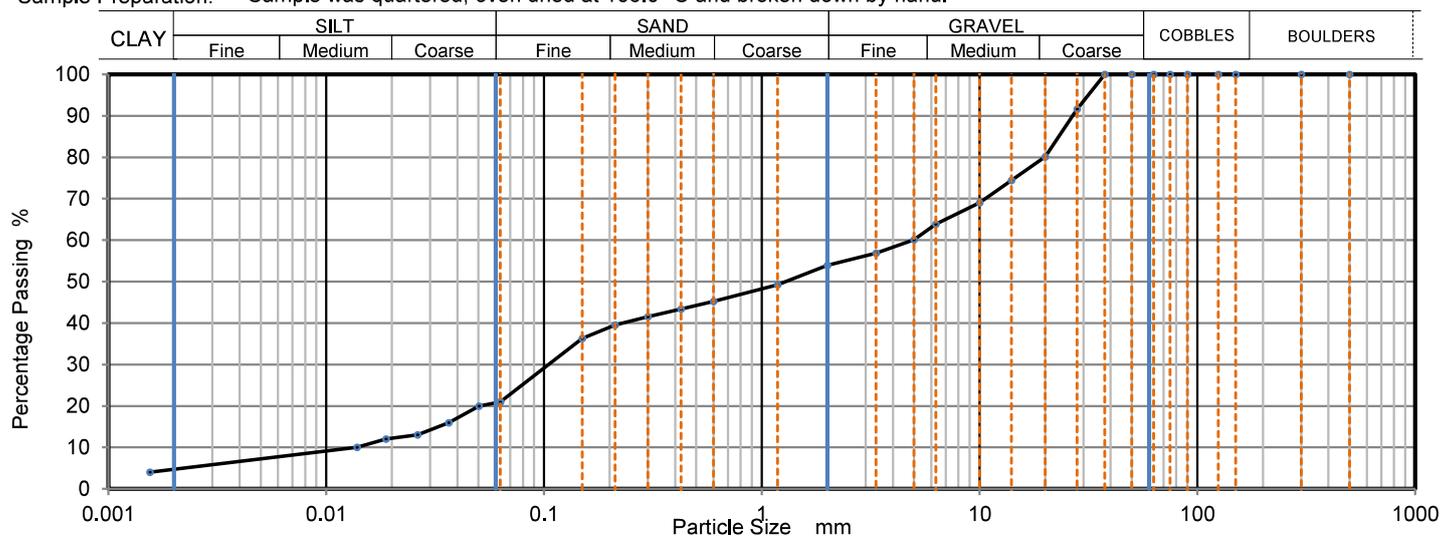
Client Reference: 21 1514 01
Job Number: 21-22164
Date Sampled: Not Given
Date Received: 09/11/2021
Date Tested: 19/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2078858
Hole No.: TP104
Sample Reference: Not Given
Sample Description: Brownish grey slightly silty clayey very sandy GRAVEL
Sample Preparation: Sample was quartered, oven dried at 106.0 °C and broken down by hand.

Depth Top [m]: 1.00
Depth Base [m]: 1.90
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	21
300	100	0.0503	20
150	100	0.0365	16
125	100	0.0262	13
90	100	0.0188	12
75	100	0.0139	10
63	100	0.0115	4
50	100		
37.5	100		
28	92		
20	80		
14	74		
10	69		
6.3	64		
5	60		
3.35	57	Particle density (assumed)	
2	54	2.65	Mg/m3
1.18	49		
0.6	45		
0.425	43		
0.3	42		
0.212	40		
0.15	36		
0.063	21		

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	33
Silt	16
Clay	5

Grading Analysis		
D100	mm	37.5
D60	mm	4.97
D30	mm	0.106
D10	mm	0.0143
Uniformity Coefficient		350
Curvature Coefficient		0.16

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Redacted

Monika Janoszek
PL Deputy Geotechnical Laboratory Manager
for and on behalf of i2 Analytical Ltd



TEST CERTIFICATE

Particle Size Distribution

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Tested in Accordance with: BS 1377-2: 1990

Client: Delta-Simons
Client Address: Suite C1, Joseph's Well,
Hanover Walk, Leeds,
LS3 1AB
Contact: Luke Barber
Site Address: Newsome Mills

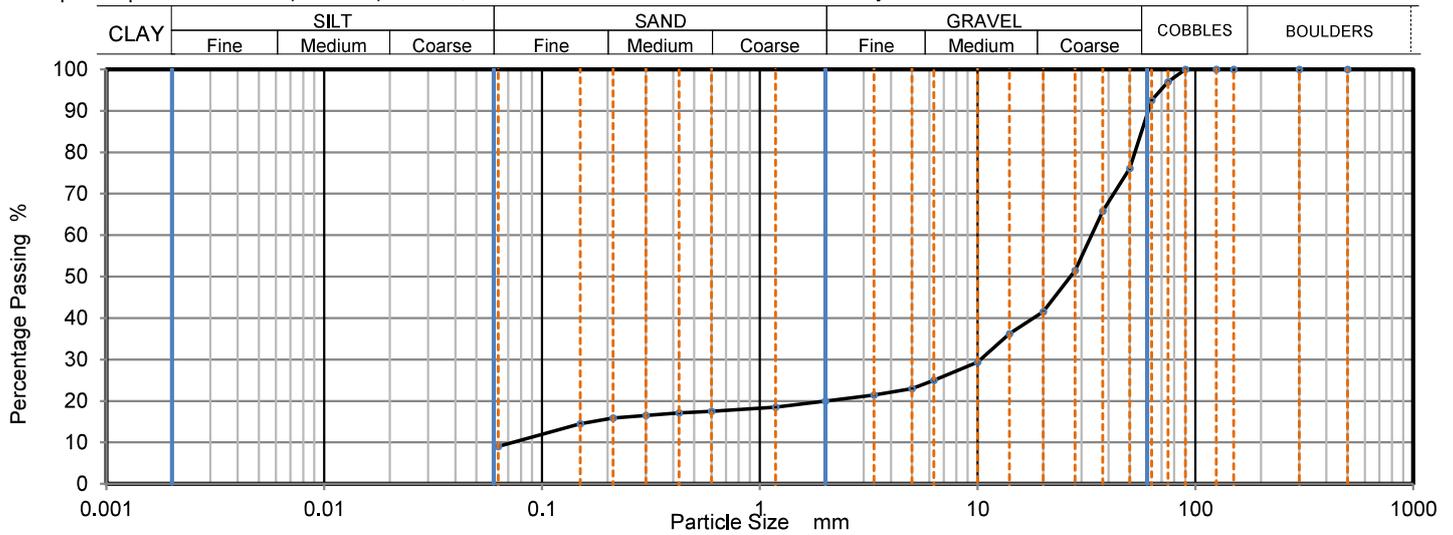
Client Reference: 21 1514 01
Job Number: 21-22164
Date Sampled: Not Given
Date Received: 09/11/2021
Date Tested: 19/11/2021
Sampled By: Not Given

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

Laboratory Reference: 2078859
Hole No.: TP112
Sample Reference: Not Given
Sample Description: Light brown sandy clayey GRAVEL with cobbles
Sample Preparation: Sample was quartered, oven dried at 108.0 °C and broken down by hand.

Depth Top [m]: 1.50
Depth Base [m]: 2.00
Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	97		
63	93		
50	76		
37.5	66		
28	52		
20	42		
14	36		
10	29		
6.3	25		
5	23		
3.35	21		
2	20		
1.18	19		
0.6	18		
0.425	17		
0.3	17		
0.212	16		
0.15	15		
0.063	9		

Sample Proportions	% dry mass
Very coarse	7
Gravel	73
Sand	11
Fines <0.063mm	9

Grading Analysis		
D100	mm	90
D60	mm	33.3
D30	mm	10.3
D10	mm	0.0729
Uniformity Coefficient		460
Curvature Coefficient		44

Uniformity Coefficient and Coefficient of Curvature calculated in accordance with BS EN ISO 14688-2: 2004 + A1: 2013

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed: **Redacted**
d
Monika Janoszek
PL Deputy Geotechnical Laboratory Manager
for and on behalf of i2 Analytical Ltd

Appendix E – Risk Definitions

Contaminated Land Risk Definitions

The following methodology is based on the methodology presented in CIRIA C552 Contaminated Land Risk Assessment: A Guide to Good Practice 2001. It requires the classification of the:

- ▲ Magnitude of the potential consequence (severity) of the Risk occurring: and
- ▲ Magnitude of the Probability (likelihood) of the Risk occurring.

The classifications are then compared to indicate the risk presented by each pollutant linkage.

Consequence to Receptor Definition Matrix

	Human Health	Controlled Waters	Buildings/Services
Severe Consequence	Acute or chronic permanent impact on human health.	Sensitive controlled water pollution ongoing, or just about to occur.	Catastrophic collapse
Medium Consequence	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
Mild Consequence	Chronic temporary impact on human health	Gradual pollution of non-sensitive controlled water	Damage to building rendering it unsafe to occupy (eg foundation damage resulting in instability).
Minor Consequence	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc).	Slight discoloration of water	Easily repairable effects of damage to buildings, structures and services, i.e discoloration of concrete

Probability Definitions

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

Standard Risk Matrix

		Consequence/Magnitude of impact			
		Severe	Medium	Mild	Minor
Probability	High	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/low	Low
	Low Likelihood	Moderate	Moderate/low	Low	Very Low
	Unlikely	Moderate/low	Low	Very Low	Very Low

Classified risks and likely action

Significance Level	Definition/Comments
Very High Risk	<p>There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening.</p> <p>This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.</p> <p>Demonstrable contaminated land situation, highest threat & liability level, urgent action recommended.</p>
High Risk	<p>Harm is likely to arise to a designated receptor from an identified hazard.</p> <p>Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.</p> <p>Likely contaminated land situation, risk assessment and action recommended.</p>
Moderate	<p>It is possible that harm could arise to a designated receptor from an identified hazard. However, if is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild</p> <p>Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.</p> <p>Plausible contaminated land situation, risk assessment and possible action recommended.</p>
Low Risk	<p>It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.</p> <p>Unlikely contaminated land situation, possible risk assessment and possible action.</p>
Very Low Risk	<p>There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.</p> <p>Negligible risk, no action recommended except vigilance for changes in conditions.</p>

Geotechnical Risk Classification

The geohazards listed in the report within Section 4 follow guidance presented in Clayton, C.R.I. (2001) *Managing Geotechnical Risk*, Thomas Telford and the Highways Agency document CD622 '*Managing Geotechnical Risk*' (2008) which aims to identify and manage the geotechnical risks associated with a scheme throughout its lifespan, from planning to construction to maintenance.

For each geohazard the probability of the hazard occurring (P) has been considered together with the impact it would have (I) if it were to happen to calculate the risk rating between 1 and 25.

Risks that fall within Moderate, Significant and Severe categories below are considered to be **substantial** and are therefore listed within the report.

Probability	(P)	X	Impact	(I)	=	(R)	Risk
Very Likely (VLk)	5		Very High (VH)	5		20 – 25	Severe
Likely (Lk)	4		High (H)	4		15 – 19	Substantial
Plausible (P)	3		Medium (M)	3		10 – 14	Moderate
Unlikely (U)	2		Low (L)	2		5 – 9	Minor
Very Unlikely (VU)	1		Very Low (VL)	1		1 – 4	Negligible

Appendix F – HazWol Online Assessment

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)



N03EW-WT9MX-PKQ18

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

Job name

21-1514.01 Newsome Mills

Description/Comments

Results of Site Investigation. This assessment has been completed on site investigation samples and does not constitute a full waste classification exercise.

The conclusions should be considered preliminary.

The analysis suite is designed to target the likely potential contaminants present in the soils on site, relevant to the assessment of risk to human health, based on the site history. It must be noted that other, currently unknown, potential contaminants with a bearing on waste classification, could theoretically be present within the materials sampled, and given the main focus of the investigation, these inevitably cannot be included with the preliminary waste classification assessment.

Further classification of materials may be required prior to disposal by the organisation intended to receive excavation arisings.

Project

21-1514.01 Newsome Mills

Site

21-1514.01 Newsome Mills

Classified by

Name: **Chris Everitt**
 Date: **03 Dec 2021 08:14 GMT**
 Telephone:

Company: **Delta Simons**
3 Henley Way, Doddington Road
Lincoln
LN6 3QR

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

Date

14 Mar 2019

Next 3 year Refresher due by Mar 2022

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP101	0.5	Hazardous	HP 7, HP 14	3
2	TP102	1.2	Hazardous	HP 7, HP 14	6
3	TP103	0.6	Non Hazardous		9
4	TP104	0.1	Non Hazardous		12
5	TP105	0.8	Non Hazardous		15
6	TP106	0.4	Non Hazardous		18
7	TP107	0.2	Non Hazardous		21
8	TP108	0.5	Non Hazardous		24
9	TP109	3.9	Hazardous	HP 7	27
10	TP110	0.5	Non Hazardous		30
11	TP111	0.2	Non Hazardous		33
12	TP112	0.1	Non Hazardous		36
13	TP113	0.1	Non Hazardous		39
14	TP114	0.5	Non Hazardous		42
15	TP115	0.1	Non Hazardous		45
16	TP116	0.3	Non Hazardous		48

Related documents

#	Name	Description
1	Delta-Simons 2019 i2 std suite + add metals	waste stream template used to create this Job

Report

Created by: Chris Everitt

Created date: 03 Dec 2021 08:14 GMT

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	51
Appendix B: Rationale for selection of metal species	52
Appendix C: Version	53

Classification of sample: TP101

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

Sample details

Sample name:	LoW Code:	
TP101	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.5 m		
Moisture content:		
11% (no correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.14%)

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

Hazard Statements hit:

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

Because of determinands:

copper sulphate: (compound conc.: 0.156%)

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.14%)

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 0.325%)

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				7.1	pH		7.1	pH	7.1 pH		
2	arsenic { arsenic trioxide }				380	mg/kg	1.32	501.724	mg/kg	0.0502 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				440	mg/kg	1.462	643.085	mg/kg	0.0643 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				620	mg/kg	2.512	1557.255	mg/kg	0.156 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1400	mg/kg		1400	mg/kg	0.14 %		
	082-001-00-6											
8	mercury { mercury dichloride }				4.6	mg/kg	1.353	6.226	mg/kg	0.000623 %		
	080-010-00-X	231-299-8	7487-94-7									

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
9	nickel { nickel chromate }				84	mg/kg	2.976	250.006	mg/kg	0.025 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				740	mg/kg	4.398	3254.465	mg/kg	0.325 %		
	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				489	mg/kg		489	mg/kg	0.0489 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									
16	phenanthrene				6.6	mg/kg		6.6	mg/kg	0.00066 %		
		201-581-5	85-01-8									
17	anthracene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		204-371-1	120-12-7									
18	fluoranthene				9.1	mg/kg		9.1	mg/kg	0.00091 %		
		205-912-4	206-44-0									
19	pyrene				8	mg/kg		8	mg/kg	0.0008 %		
		204-927-3	129-00-0									
20	benzo[a]anthracene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
	601-033-00-9	200-280-6	56-55-3									
21	chrysene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
	601-048-00-0	205-923-4	218-01-9									
22	benzo[bk]fluoranthene				6.1	mg/kg		6.1	mg/kg	0.00061 %		
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
23	benzo[a]pyrene; benzo[def]chrysene				3.4	mg/kg		3.4	mg/kg	0.00034 %		
	601-032-00-3	200-028-5	50-32-8									
24	indeno[123-cd]pyrene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
		205-893-2	193-39-5									
25	dibenz[a,h]anthracene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
	601-041-00-2	200-181-8	53-70-3									
26	benzo[ghi]perylene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		205-883-8	191-24-2									
27	benzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-020-00-8	200-753-7	71-43-2									
28	toluene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-021-00-3	203-625-9	108-88-3									
29	ethylbenzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-023-00-4	202-849-4	100-41-4									
30	xylene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	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]									
Total:										0.815 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0489%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP102

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

Sample details

Sample name: TP102	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.2 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: 15% (no correction)		

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.23%)

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

Hazard Statements hit:

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

Because of determinands:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.23%)

zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2]: (compound conc.: 0.176%)

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH		PH		7.5	pH		7.5	pH	7.5 pH		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	220	mg/kg	1.32	290.472	mg/kg	0.029 %		
3	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %	
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		74	mg/kg	1.462	108.155	mg/kg	0.0108 %	
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %	
6	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		270	mg/kg	2.512	678.159	mg/kg	0.0678 %	
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	2300	mg/kg		2300	mg/kg	0.23 %	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %	

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
9	nickel { nickel chromate }				100	mg/kg	2.976	297.626	mg/kg	0.0298 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				400	mg/kg	4.398	1759.17	mg/kg	0.176 %		
	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				40	mg/kg		40	mg/kg	0.004 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									
16	phenanthrene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
		201-581-5	85-01-8									
17	anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		204-371-1	120-12-7									
18	fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		205-912-4	206-44-0									
19	pyrene				0.52	mg/kg		0.52	mg/kg	0.000052 %		
		204-927-3	129-00-0									
20	benzo[a]anthracene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
	601-033-00-9	200-280-6	56-55-3									
21	chrysene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
	601-048-00-0	205-923-4	218-01-9									
22	benzo[bk]fluoranthene				0.84	mg/kg		0.84	mg/kg	0.000084 %		
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
23	benzo[a]pyrene; benzo[def]chrysene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
	601-032-00-3	200-028-5	50-32-8									
24	indeno[123-cd]pyrene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		205-893-2	193-39-5									
25	dibenz[a,h]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-041-00-2	200-181-8	53-70-3									
26	benzo[ghi]perylene				0.41	mg/kg		0.41	mg/kg	0.000041 %		
		205-883-8	191-24-2									
27	benzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-020-00-8	200-753-7	71-43-2									
28	toluene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-021-00-3	203-625-9	108-88-3									
29	ethylbenzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-023-00-4	202-849-4	100-41-4									
30	xylene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	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]									
Total:										0.548 %		

Key

- User supplied data
- 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

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.004%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP103

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

Sample details

Sample name:	LoW Code:	
TP103	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6 m		
Moisture content:		
11%		
(no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.3	pH		8.3	pH	8.3 pH		
2	arsenic { arsenic trioxide }				15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	1.5	mg/kg	1.285	1.928	mg/kg	0.00015 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				50	mg/kg	1.462	73.078	mg/kg	0.00731 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				56	mg/kg	2.512	140.655	mg/kg	0.0141 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	150	mg/kg		150	mg/kg	0.015 %		
	082-001-00-6											
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				25	mg/kg	2.976	74.407	mg/kg	0.00744 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				230	mg/kg	4.398	1011.523	mg/kg	0.101 %		
	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				464	mg/kg		464	mg/kg	0.0464 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		2.2 mg/kg		2.2 mg/kg	0.00022 %		
17	anthracene	204-371-1	120-12-7		0.53 mg/kg		0.53 mg/kg	0.000053 %		
18	fluoranthene	205-912-4	206-44-0		3.9 mg/kg		3.9 mg/kg	0.00039 %		
19	pyrene	204-927-3	129-00-0		3.8 mg/kg		3.8 mg/kg	0.00038 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2.4 mg/kg		2.4 mg/kg	0.00024 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	2 mg/kg		2 mg/kg	0.0002 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		4.2 mg/kg		4.2 mg/kg	0.00042 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	2.5 mg/kg		2.5 mg/kg	0.00025 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		1.4 mg/kg		1.4 mg/kg	0.00014 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.43 mg/kg		0.43 mg/kg	0.000043 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		1.7 mg/kg		1.7 mg/kg	0.00017 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.196 %		

Key

- User supplied data
- 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0464%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP104

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

Sample details

Sample name:	LoW Code:
TP104	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)
0.1 m	
Moisture content:	
5.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 5.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	9		PH		9	pH		9	pH	9pH		
2	033-003-00-0	215-481-4	1327-53-3		8.3	mg/kg	1.32	10.959	mg/kg	0.0011 %		
3	048-010-00-4	215-147-8	1306-23-6	1	0.8	mg/kg	1.285	1.028	mg/kg	0.00008 %		
4		215-160-9	1308-38-9		70	mg/kg	1.462	102.309	mg/kg	0.0102 %		
5	024-001-00-0	215-607-8	1333-82-0		1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
6	029-004-00-0	231-847-6	7758-98-7		47	mg/kg	2.512	118.05	mg/kg	0.0118 %		
7	082-001-00-6			1	75	mg/kg		75	mg/kg	0.0075 %		
8	080-010-00-X	231-299-8	7487-94-7		0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
9	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.976	77.383	mg/kg	0.00774 %		
10	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		83	mg/kg	4.398	365.028	mg/kg	0.0365 %		
11			TPH		486	mg/kg		486	mg/kg	0.0486 %		
12	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
13		205-917-1	208-96-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
14		201-469-6	83-32-9		0.05	mg/kg		0.05	mg/kg	0.000005 %		
15		201-695-5	86-73-7		0.05	mg/kg		0.05	mg/kg	0.000005 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		1.8 mg/kg		1.8 mg/kg	0.00018 %		
17	anthracene	204-371-1	120-12-7		0.57 mg/kg		0.57 mg/kg	0.000057 %		
18	fluoranthene	205-912-4	206-44-0		4.2 mg/kg		4.2 mg/kg	0.00042 %		
19	pyrene	204-927-3	129-00-0		4.2 mg/kg		4.2 mg/kg	0.00042 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2.4 mg/kg		2.4 mg/kg	0.00024 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	2.2 mg/kg		2.2 mg/kg	0.00022 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		5.3 mg/kg		5.3 mg/kg	0.00053 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	3.2 mg/kg		3.2 mg/kg	0.00032 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		2.1 mg/kg		2.1 mg/kg	0.00021 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.52 mg/kg		0.52 mg/kg	0.000052 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		2.7 mg/kg		2.7 mg/kg	0.00027 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.127 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0486%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP105

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

Sample details

Sample name:	LoW Code:	
TP105	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)
0.8 m		
Moisture content:		
14% (no correction)		

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH		PH		8.3	pH		8.3	pH	8.3 pH		
2	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.001	mg/kg		0.001	mg/kg	0.0000001 %		
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		25	mg/kg	1.32	33.008	mg/kg	0.0033 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	1.9	mg/kg	1.285	2.442	mg/kg	0.00019 %	
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		42	mg/kg	1.462	61.385	mg/kg	0.00614 %	
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %	
7	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7		110	mg/kg	2.512	276.287	mg/kg	0.0276 %	
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			1	400	mg/kg		400	mg/kg	0.04 %	
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.9	mg/kg	1.353	1.218	mg/kg	0.000122 %	
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.976	71.43	mg/kg	0.00714 %	
11	zinc { zinc sulphate (hydrated) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		330	mg/kg	4.398	1451.316	mg/kg	0.145 %	
12	TPH (C6 to C40) petroleum group		TPH			111	mg/kg		111	mg/kg	0.0111 %	
13	naphthalene	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	acenaphthylene	205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
15	acenaphthene	201-469-6	83-32-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
16	fluorene	201-695-5	86-73-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
17	phenanthrene	201-581-5	85-01-8		1.7 mg/kg		1.7 mg/kg	0.00017 %		
18	anthracene	204-371-1	120-12-7		0.45 mg/kg		0.45 mg/kg	0.000045 %		
19	fluoranthene	205-912-4	206-44-0		3.6 mg/kg		3.6 mg/kg	0.00036 %		
20	pyrene	204-927-3	129-00-0		3.6 mg/kg		3.6 mg/kg	0.00036 %		
21	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2.1 mg/kg		2.1 mg/kg	0.00021 %		
22	chrysene	601-048-00-0	205-923-4	218-01-9	1.9 mg/kg		1.9 mg/kg	0.00019 %		
23	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		3.9 mg/kg		3.9 mg/kg	0.00039 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	2.2 mg/kg		2.2 mg/kg	0.00022 %		
25	indeno[123-cd]pyrene	205-893-2	193-39-5		1.2 mg/kg		1.2 mg/kg	0.00012 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.35 mg/kg		0.35 mg/kg	0.000035 %		
27	benzo[ghi]perylene	205-883-8	191-24-2		1.3 mg/kg		1.3 mg/kg	0.00013 %		
28	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
31	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.243 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0111%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP106

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

Sample details

Sample name: TP106	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.4 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 11% (no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH		PH		8.4 pH		8.4 pH	8.4 pH		
2	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.001 mg/kg		0.001 mg/kg	0.000001 %		
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1.4 mg/kg	1.285	1.799 mg/kg	0.00014 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9	33 mg/kg	1.462	48.231 mg/kg	0.00482 %		
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0	1.2 mg/kg	1.923	2.308 mg/kg	0.000231 %		
7	copper { copper sulphate }	029-004-00-0	231-847-6	7758-98-7	82 mg/kg	2.512	205.96 mg/kg	0.0206 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6			290 mg/kg		290 mg/kg	0.029 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	0.3 mg/kg	1.353	0.406 mg/kg	0.0000406 %		
10	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	21 mg/kg	2.976	62.502 mg/kg	0.00625 %		
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]	260 mg/kg	4.398	1143.461 mg/kg	0.114 %		
12	TPH (C6 to C40) petroleum group			TPH	55 mg/kg		55 mg/kg	0.0055 %		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	● acenaphthylene	205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
15	● acenaphthene	201-469-6	83-32-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
16	● fluorene	201-695-5	86-73-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
17	● phenanthrene	201-581-5	85-01-8		1.2 mg/kg		1.2 mg/kg	0.00012 %		
18	● anthracene	204-371-1	120-12-7		0.24 mg/kg		0.24 mg/kg	0.000024 %		
19	● fluoranthene	205-912-4	206-44-0		2.6 mg/kg		2.6 mg/kg	0.00026 %		
20	● pyrene	204-927-3	129-00-0		2.6 mg/kg		2.6 mg/kg	0.00026 %		
21	benzo[a]anthracene	601-033-00-9	200-280-6		1.5 mg/kg		1.5 mg/kg	0.00015 %		
22	chrysene	601-048-00-0	205-923-4		1.4 mg/kg		1.4 mg/kg	0.00014 %		
23	● benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		2.7 mg/kg		2.7 mg/kg	0.00027 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		1.5 mg/kg		1.5 mg/kg	0.00015 %		
25	● indeno[123-cd]pyrene	205-893-2	193-39-5		0.81 mg/kg		0.81 mg/kg	0.000081 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.22 mg/kg		0.22 mg/kg	0.000022 %		
27	● benzo[ghi]perylene	205-883-8	191-24-2		0.99 mg/kg		0.99 mg/kg	0.000099 %		
28	benzene	601-020-00-8	200-753-7		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	toluene	601-021-00-3	203-625-9		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	● ethylbenzene	601-023-00-4	202-849-4		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
31	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.184 %		

Key

- User supplied data
- 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

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0055%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP107

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

Sample details

Sample name:	LoW Code:
TP107	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m	
Moisture content:	
19% (no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH		PH		7.9 pH		7.9 pH	7.9 pH		
2	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4 1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8 1306-23-6	1	1 mg/kg	1.285	1.285 mg/kg	0.0001 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9 1308-38-9		51 mg/kg	1.462	74.539 mg/kg	0.00745 %		
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8 1333-82-0		1.2 mg/kg	1.923	2.308 mg/kg	0.000231 %		
7	copper { copper sulphate }	029-004-00-0	231-847-6 7758-98-7		68 mg/kg	2.512	170.796 mg/kg	0.0171 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6		1	300 mg/kg		300 mg/kg	0.03 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8 7487-94-7		0.3 mg/kg	1.353	0.406 mg/kg	0.0000406 %		
10	nickel { nickel chromate }	028-035-00-7	238-766-5 14721-18-7		23 mg/kg	2.976	68.454 mg/kg	0.00685 %		
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2] 7446-19-7 [1] 7733-02-0 [2]		230 mg/kg	4.398	1011.523 mg/kg	0.101 %		
12	TPH (C6 to C40) petroleum group		TPH		222 mg/kg		222 mg/kg	0.0222 %		
13	naphthalene	601-052-00-2	202-049-5 91-20-3		0.05 mg/kg		0.05 mg/kg	0.000005 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	acenaphthylene	205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
15	acenaphthene	201-469-6	83-32-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
16	fluorene	201-695-5	86-73-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
17	phenanthrene	201-581-5	85-01-8		1.9 mg/kg		1.9 mg/kg	0.00019 %		
18	anthracene	204-371-1	120-12-7		0.41 mg/kg		0.41 mg/kg	0.000041 %		
19	fluoranthene	205-912-4	206-44-0		3.5 mg/kg		3.5 mg/kg	0.00035 %		
20	pyrene	204-927-3	129-00-0		3.5 mg/kg		3.5 mg/kg	0.00035 %		
21	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2 mg/kg		2 mg/kg	0.0002 %		
22	chrysene	601-048-00-0	205-923-4	218-01-9	1.6 mg/kg		1.6 mg/kg	0.00016 %		
23	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		3.7 mg/kg		3.7 mg/kg	0.00037 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	2.1 mg/kg		2.1 mg/kg	0.00021 %		
25	indeno[123-cd]pyrene	205-893-2	193-39-5		1.1 mg/kg		1.1 mg/kg	0.00011 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.32 mg/kg		0.32 mg/kg	0.000032 %		
27	benzo[ghi]perylene	205-883-8	191-24-2		1.2 mg/kg		1.2 mg/kg	0.00012 %		
28	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
31	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.19 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0222%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP108

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

Sample details

Sample name:	LoW Code:
TP108	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m	
Moisture content:	
18%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	033-003-00-0	215-481-4	1327-53-3		8.5	pH		8.5	pH	8.5 pH		
2	033-003-00-0	215-481-4	1327-53-3		28	mg/kg	1.32	36.969	mg/kg	0.0037 %		
3	048-010-00-4	215-147-8	1306-23-6	1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
4	024-001-00-0	215-607-8	1333-82-0		20	mg/kg	1.462	29.231	mg/kg	0.00292 %		
5	024-001-00-0	215-607-8	1333-82-0		1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
6	029-004-00-0	231-847-6	7758-98-7		87	mg/kg	2.512	218.518	mg/kg	0.0219 %		
7	082-001-00-6			1	16	mg/kg		16	mg/kg	0.0016 %		
8	080-010-00-X	231-299-8	7487-94-7		0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
9	028-035-00-7	238-766-5	14721-18-7		45	mg/kg	2.976	133.932	mg/kg	0.0134 %		
10	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		70	mg/kg	4.398	307.855	mg/kg	0.0308 %		
11			TPH		40	mg/kg		40	mg/kg	0.004 %		
12	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
13	205-917-1	208-96-8			0.05	mg/kg		0.05	mg/kg	0.000005 %		
14	201-469-6	83-32-9			0.05	mg/kg		0.05	mg/kg	0.000005 %		
15	201-695-5	86-73-7			0.05	mg/kg		0.05	mg/kg	0.000005 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		0.05 mg/kg		0.05 mg/kg	0.000005 %		
19	pyrene	204-927-3	129-00-0		0.05 mg/kg		0.05 mg/kg	0.000005 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.05 mg/kg		0.05 mg/kg	0.000005 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
23	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 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.05 mg/kg		0.05 mg/kg	0.000005 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.05 mg/kg		0.05 mg/kg	0.000005 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.0786 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

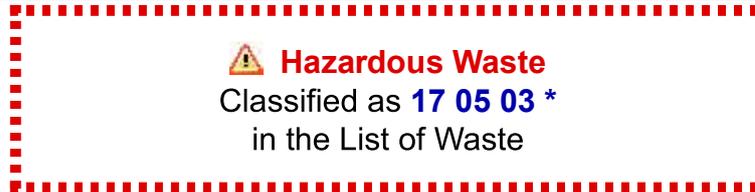
benzene: (conc.: 1.0e-07%)
toluene: (conc.: 1.0e-07%)
ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.004%)
xylene: (conc.: 1.0e-07%)

Classification of sample: TP109



Sample details

Sample name:	LoW Code:
TP109	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
3.9 m	
Moisture content:	
25%	
(no correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.11%)

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH		PH		7.4 pH		7.4 pH	7.4 pH		
2	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.24 mg/kg		0.24 mg/kg	0.000024 %		
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4 1327-53-3		31 mg/kg	1.32	40.93 mg/kg	0.00409 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8 1306-23-6	1	0.2 mg/kg	1.285	0.257 mg/kg	0.00002 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9 1308-38-9		44 mg/kg	1.462	64.308 mg/kg	0.00643 %		
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8 1333-82-0		1.2 mg/kg	1.923	2.308 mg/kg	0.000231 %		
7	copper { copper sulphate }	029-004-00-0	231-847-6 7758-98-7		82 mg/kg	2.512	205.96 mg/kg	0.0206 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6		1	1100 mg/kg		1100 mg/kg	0.11 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8 7487-94-7		3.9 mg/kg	1.353	5.279 mg/kg	0.000528 %		
10	nickel { nickel chromate }	028-035-00-7	238-766-5 14721-18-7		33 mg/kg	2.976	98.217 mg/kg	0.00982 %		

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				240	mg/kg	4.398	1055.502	mg/kg	0.106 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
12	TPH (C6 to C40) petroleum group				286	mg/kg		286	mg/kg	0.0286 %		
			TPH									
13	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
14	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
15	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
16	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									
17	phenanthrene				0.65	mg/kg		0.65	mg/kg	0.000065 %		
		201-581-5	85-01-8									
18	anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		204-371-1	120-12-7									
19	fluoranthene				0.84	mg/kg		0.84	mg/kg	0.000084 %		
		205-912-4	206-44-0									
20	pyrene				0.99	mg/kg		0.99	mg/kg	0.000099 %		
		204-927-3	129-00-0									
21	benzo[a]anthracene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
	601-033-00-9	200-280-6	56-55-3									
22	chrysene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
	601-048-00-0	205-923-4	218-01-9									
23	benzo[bk]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9									
24	benzo[a]pyrene; benzo[def]chrysene				0.57	mg/kg		0.57	mg/kg	0.000057 %		
	601-032-00-3	200-028-5	50-32-8									
25	indeno[123-cd]pyrene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
		205-893-2	193-39-5									
26	dibenz[a,h]anthracene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-041-00-2	200-181-8	53-70-3									
27	benzo[ghi]perylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-883-8	191-24-2									
28	benzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-020-00-8	200-753-7	71-43-2									
29	toluene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-021-00-3	203-625-9	108-88-3									
30	ethylbenzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	601-023-00-4	202-849-4	100-41-4									
31	xylene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
	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]									
Total:										0.286 %		

Key

- User supplied data
- 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0286%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP110

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

Sample details

Sample name:	LoW Code:
TP110	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m	
Moisture content:	
13%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH		PH		9 pH		9 pH	9pH		
2	asbestos	650-013-00-6	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		0.002 mg/kg		0.002 mg/kg	0.000002 %		
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4 1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
4	cadmium { cadmium sulfide }	048-010-00-4	215-147-8 1306-23-6	1	1.7 mg/kg	1.285	2.185 mg/kg	0.00017 %		
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9 1308-38-9		42 mg/kg	1.462	61.385 mg/kg	0.00614 %		
6	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8 1333-82-0		1.2 mg/kg	1.923	2.308 mg/kg	0.000231 %		
7	copper { copper sulphate }	029-004-00-0	231-847-6 7758-98-7		140 mg/kg	2.512	351.638 mg/kg	0.0352 %		
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }	082-001-00-6		1	440 mg/kg		440 mg/kg	0.044 %		
9	mercury { mercury dichloride }	080-010-00-X	231-299-8 7487-94-7		0.5 mg/kg	1.353	0.677 mg/kg	0.0000677 %		
10	nickel { nickel chromate }	028-035-00-7	238-766-5 14721-18-7		19 mg/kg	2.976	56.549 mg/kg	0.00565 %		
11	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }	030-006-00-9	231-793-3 [1] 231-793-3 [2] 7446-19-7 [1] 7733-02-0 [2]		290 mg/kg	4.398	1275.399 mg/kg	0.128 %		
12	TPH (C6 to C40) petroleum group		TPH		57 mg/kg		57 mg/kg	0.0057 %		
13	naphthalene	601-052-00-2	202-049-5 91-20-3		0.05 mg/kg		0.05 mg/kg	0.000005 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	● acenaphthylene	205-917-1	208-96-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
15	● acenaphthene	201-469-6	83-32-9		0.05 mg/kg		0.05 mg/kg	0.000005 %		
16	● fluorene	201-695-5	86-73-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
17	● phenanthrene	201-581-5	85-01-8		1.1 mg/kg		1.1 mg/kg	0.00011 %		
18	● anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
19	● fluoranthene	205-912-4	206-44-0		1.9 mg/kg		1.9 mg/kg	0.00019 %		
20	● pyrene	204-927-3	129-00-0		1.9 mg/kg		1.9 mg/kg	0.00019 %		
21	benzo[a]anthracene	601-033-00-9	200-280-6		1.1 mg/kg		1.1 mg/kg	0.00011 %		
22	chrysene	601-048-00-0	205-923-4		1.1 mg/kg		1.1 mg/kg	0.00011 %		
23	● benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.94 mg/kg		1.94 mg/kg	0.000194 %		
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		1 mg/kg		1 mg/kg	0.0001 %		
25	● indeno[123-cd]pyrene	205-893-2	193-39-5		0.59 mg/kg		0.59 mg/kg	0.000059 %		
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.05 mg/kg		0.05 mg/kg	0.000005 %		
27	● benzo[ghi]perylene	205-883-8	191-24-2		0.64 mg/kg		0.64 mg/kg	0.000064 %		
28	benzene	601-020-00-8	200-753-7		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	toluene	601-021-00-3	203-625-9		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	● ethylbenzene	601-023-00-4	202-849-4		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
31	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.228 %		

Key

- User supplied data
- 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

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0057%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP111

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

Sample details

Sample name:	LoW Code:	
TP111	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.2 m		
Moisture content:		
18% (no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8	pH		8	pH	8pH		
2	arsenic { arsenic trioxide }				26	mg/kg	1.32	34.328	mg/kg	0.00343 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				45	mg/kg	1.462	65.77	mg/kg	0.00658 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				69	mg/kg	2.512	173.307	mg/kg	0.0173 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	390	mg/kg		390	mg/kg	0.039 %		
	082-001-00-6											
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				20	mg/kg	2.976	59.525	mg/kg	0.00595 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				170	mg/kg	4.398	747.647	mg/kg	0.0748 %		
	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				159	mg/kg		159	mg/kg	0.0159 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.45 mg/kg		0.45 mg/kg	0.000045 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		0.71 mg/kg		0.71 mg/kg	0.000071 %		
19	pyrene	204-927-3	129-00-0		0.7 mg/kg		0.7 mg/kg	0.00007 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.39 mg/kg		0.39 mg/kg	0.000039 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.5 mg/kg		0.5 mg/kg	0.00005 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.7 mg/kg		0.7 mg/kg	0.00007 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.36 mg/kg		0.36 mg/kg	0.000036 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.18 mg/kg		0.18 mg/kg	0.000018 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.22 mg/kg		0.22 mg/kg	0.000022 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.164 %		

Key

- User supplied data
- 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0159%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP112

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

Sample details

Sample name:	LoW Code:
TP112	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)
0.1 m	
Moisture content:	
18%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	033-003-00-0	215-481-4	1327-53-3		9.3	pH		9.3	pH	9.3 pH		
2	033-003-00-0	215-481-4	1327-53-3		16	mg/kg	1.32	21.125	mg/kg	0.00211 %		
3	048-010-00-4	215-147-8	1306-23-6	1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
4	048-010-00-4	215-147-8	1306-23-6		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		
5	024-001-00-0	215-607-8	1333-82-0		1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
6	029-004-00-0	231-847-6	7758-98-7		62	mg/kg	2.512	155.726	mg/kg	0.0156 %		
7	082-001-00-6			1	160	mg/kg		160	mg/kg	0.016 %		
8	080-010-00-X	231-299-8	7487-94-7		0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
9	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.976	65.478	mg/kg	0.00655 %		
10	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		110	mg/kg	4.398	483.772	mg/kg	0.0484 %		
11			TPH		40	mg/kg		40	mg/kg	0.004 %		
12	601-052-00-2	202-049-5	91-20-3		0.05	mg/kg		0.05	mg/kg	0.000005 %		
13		205-917-1	208-96-8		0.05	mg/kg		0.05	mg/kg	0.000005 %		
14		201-469-6	83-32-9		0.05	mg/kg		0.05	mg/kg	0.000005 %		
15		201-695-5	86-73-7		0.05	mg/kg		0.05	mg/kg	0.000005 %		

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.43 mg/kg		0.43 mg/kg	0.000043 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		0.63 mg/kg		0.63 mg/kg	0.000063 %		
19	pyrene	204-927-3	129-00-0		0.65 mg/kg		0.65 mg/kg	0.000065 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.38 mg/kg		0.38 mg/kg	0.000038 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.39 mg/kg		0.39 mg/kg	0.000039 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.67 mg/kg		0.67 mg/kg	0.000067 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.34 mg/kg		0.34 mg/kg	0.000034 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.05 mg/kg		0.05 mg/kg	0.000005 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.05 mg/kg		0.05 mg/kg	0.000005 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.0972 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.004%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP113

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

Sample details

Sample name:	LoW Code:	
TP113	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)
0.1 m		
Moisture content:		
15%		
(no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				9	pH		9	pH	9pH		
2	arsenic { arsenic trioxide }				19	mg/kg	1.32	25.086	mg/kg	0.00251 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				22	mg/kg	1.462	32.154	mg/kg	0.00322 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				80	mg/kg	2.512	200.936	mg/kg	0.0201 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	330	mg/kg		330	mg/kg	0.033 %		
	082-001-00-6											
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				24	mg/kg	2.976	71.43	mg/kg	0.00714 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				210	mg/kg	4.398	923.564	mg/kg	0.0924 %		
	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				117	mg/kg		117	mg/kg	0.0117 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.76 mg/kg		0.76 mg/kg	0.000076 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		1.2 mg/kg		1.2 mg/kg	0.00012 %		
19	pyrene	204-927-3	129-00-0		1.2 mg/kg		1.2 mg/kg	0.00012 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.6 mg/kg		0.6 mg/kg	0.00006 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.61 mg/kg		0.61 mg/kg	0.000061 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.85 mg/kg		0.85 mg/kg	0.000085 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.49 mg/kg		0.49 mg/kg	0.000049 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.21 mg/kg		0.21 mg/kg	0.000021 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.3 mg/kg		0.3 mg/kg	0.00003 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.171 %		

Key

- User supplied data
- 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0117%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP114

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

Sample details

Sample name: TP114	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 20% (no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.8	pH		8.8	pH	8.8 pH		
2	arsenic { arsenic trioxide }				15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21	mg/kg	1.462	30.693	mg/kg	0.00307 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				110	mg/kg	2.512	276.287	mg/kg	0.0276 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	790	mg/kg		790	mg/kg	0.079 %		
	082-001-00-6											
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				22	mg/kg	2.976	65.478	mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				330	mg/kg	4.398	1451.316	mg/kg	0.145 %		
	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				145	mg/kg		145	mg/kg	0.0145 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.66 mg/kg		0.66 mg/kg	0.000066 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		0.81 mg/kg		0.81 mg/kg	0.000081 %		
19	pyrene	204-927-3	129-00-0		0.91 mg/kg		0.91 mg/kg	0.000091 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.76 mg/kg		0.76 mg/kg	0.000076 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.79 mg/kg		0.79 mg/kg	0.000079 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.42 mg/kg		1.42 mg/kg	0.000142 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.65 mg/kg		0.65 mg/kg	0.000065 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.31 mg/kg		0.31 mg/kg	0.000031 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.39 mg/kg		0.39 mg/kg	0.000039 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.279 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)
toluene: (conc.: 1.0e-07%)
ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0145%)
xylene: (conc.: 1.0e-07%)

Classification of sample: TP115

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

Sample details

Sample name:	LoW Code:	
TP115	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)
0.1 m		
Moisture content:		
9.8% (no correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.1	pH		8.1	pH	8.1 pH		
2	arsenic { arsenic trioxide }				20	mg/kg	1.32	26.407	mg/kg	0.00264 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	8	mg/kg	1.285	10.282	mg/kg	0.0008 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				30	mg/kg	1.462	43.847	mg/kg	0.00438 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				59	mg/kg	2.512	148.19	mg/kg	0.0148 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	270	mg/kg		270	mg/kg	0.027 %		
	082-001-00-6											
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				38	mg/kg	2.976	113.098	mg/kg	0.0113 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				190	mg/kg	4.398	835.606	mg/kg	0.0836 %		
	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				498	mg/kg		498	mg/kg	0.0498 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.63 mg/kg		0.63 mg/kg	0.000063 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		0.61 mg/kg		0.61 mg/kg	0.000061 %		
19	pyrene	204-927-3	129-00-0		0.66 mg/kg		0.66 mg/kg	0.000066 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.5 mg/kg		0.5 mg/kg	0.00005 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.62 mg/kg		0.62 mg/kg	0.000062 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		0.83 mg/kg		0.83 mg/kg	0.000083 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.36 mg/kg		0.36 mg/kg	0.000036 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.05 mg/kg		0.05 mg/kg	0.000005 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.05 mg/kg		0.05 mg/kg	0.000005 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.195 %		

Key

- User supplied data
- 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)

toluene: (conc.: 1.0e-07%)

ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0498%)

xylene: (conc.: 1.0e-07%)

Classification of sample: TP116

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

Sample details

Sample name:	LoW Code:
TP116	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.3 m	
Moisture content:	
13%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	pH				8.9	pH		8.9	pH	8.9 pH		
2	arsenic { arsenic trioxide }				15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
	033-003-00-0	215-481-4	1327-53-3									
3	cadmium { cadmium sulfide }			1	0.2	mg/kg	1.285	0.257	mg/kg	0.00002 %		
	048-010-00-4	215-147-8	1306-23-6									
4	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				24	mg/kg	1.462	35.077	mg/kg	0.00351 %		
		215-160-9	1308-38-9									
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				1.2	mg/kg	1.923	2.308	mg/kg	0.000231 %		
	024-001-00-0	215-607-8	1333-82-0									
6	copper { copper sulphate }				57	mg/kg	2.512	143.167	mg/kg	0.0143 %		
	029-004-00-0	231-847-6	7758-98-7									
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	450	mg/kg		450	mg/kg	0.045 %		
	082-001-00-6											
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.406	mg/kg	0.0000406 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				24	mg/kg	2.976	71.43	mg/kg	0.00714 %		
	028-035-00-7	238-766-5	14721-18-7									
10	zinc { zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate); [1] zinc sulphate (anhydrous) [2] }				180	mg/kg	4.398	791.627	mg/kg	0.0792 %		
	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				40	mg/kg		40	mg/kg	0.004 %		
			TPH									
12	naphthalene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		205-917-1	208-96-8									
14	acenaphthene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-469-6	83-32-9									
15	fluorene				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		201-695-5	86-73-7									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	phenanthrene	201-581-5	85-01-8		0.46 mg/kg		0.46 mg/kg	0.000046 %		
17	anthracene	204-371-1	120-12-7		0.05 mg/kg		0.05 mg/kg	0.000005 %		
18	fluoranthene	205-912-4	206-44-0		0.89 mg/kg		0.89 mg/kg	0.000089 %		
19	pyrene	204-927-3	129-00-0		0.89 mg/kg		0.89 mg/kg	0.000089 %		
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.63 mg/kg		0.63 mg/kg	0.000063 %		
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.62 mg/kg		0.62 mg/kg	0.000062 %		
22	benzo[bk]fluoranthene	[1] 205-911-9 [2] 205-916-6	[1] 205-99-2 [2] 207-08-9		1.09 mg/kg		1.09 mg/kg	0.000109 %		
23	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.51 mg/kg		0.51 mg/kg	0.000051 %		
24	indeno[123-cd]pyrene	205-893-2	193-39-5		0.26 mg/kg		0.26 mg/kg	0.000026 %		
25	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
26	benzo[ghi]perylene	205-883-8	191-24-2		0.32 mg/kg		0.32 mg/kg	0.000032 %		
27	benzene	601-020-00-8	200-753-7	71-43-2	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
28	toluene	601-021-00-3	203-625-9	108-88-3	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
29	ethylbenzene	601-023-00-4	202-849-4	100-41-4	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
30	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]	0.001 mg/kg		0.001 mg/kg	0.0000001 %		
Total:								0.156 %		

Key

- User supplied data
 - 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
- CLP: Note 1 Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because all results below detection limit

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00023%)

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 soils containing hydrocarbons of negligible flammability at low concentrations

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.0e-07%)
toluene: (conc.: 1.0e-07%)
ethylbenzene: (conc.: 1.0e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.004%)
xylene: (conc.: 1.0e-07%)

Appendix A: Classifier defined and non CLP determinands

• pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4 H332 , Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 1B H360FD , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

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

CLP index number: 082-001-00-6
Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

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

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

• 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

▪ **benzo[bk]fluoranthene** (EC Number: [1] 205-911-9 [2] 205-916-6, CAS Number: [1] 205-99-2 [2] 207-08-9)

Description/Comments: Combined data from harmonised entries in CLP for benzo[b] and benzo[k]fluoranthene; 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: Carc. 1B H350 , 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

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

CLP index number: 601-023-00-4
Description/Comments:
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

(enter justification for selecting this species)

cadmium {cadmium sulfide}

(enter justification for selecting this species)

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

(enter justification for selecting this species)

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

(enter justification for selecting this species)

copper {copper sulphate}

NO reason to anticipate copper sulphate pentahydrate used on site

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

No Cr6 an little Cr3 in results

mercury {mercury dichloride}

(enter justification for selecting this species)

nickel {nickel chromate}

(enter justification for selecting this species)

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

no chrome 6 present in samples tested

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**
HazWasteOnline Classification Engine Version: 2021.293.4891.9295 (20 Oct 2021)
HazWasteOnline Database: 2021.293.4891.9295 (20 Oct 2021)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Regulations 2019 - UK: 2019 No. 720 of 27th March 2019

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

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

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

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