OXFORDSHIRE
STRATEGIC RAIL FREIGHT INTERCHANGE

Environmental Statement

Chapter 11: Ground Conditions
Appendix 11.6: Landfill Ground Investigation and Geo-Environmental Assessment

Document 6.11F

On behalf of
Oxfordshire Railfreight Limited

Prepared by BWB Consulting Ltd
February 2023

BWB
A CAF GROUP COMPANY

ENVIRONMENT

Oxfordshire Railfreight Ltd
Oxfordshire Strategic Railfreight Interchange
Oxfordshire

Ardley Landfill Ground Investigation and Geo-Environmental Assessment

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY	
Site Address	Valencia Waste Management, Ardley Cottage, OX27 7PH
Site Setting	Development proposals are to develop a new road (Ardley Bypass) at grade through the north western area of the site, with a new rail line through the northern area at a level of circa 8.0m below existing surface levels. The site is a former quarry and historical licenced landfill site accepting domestic waste in the 1980s, and still has a leachate and landfill gas management system in place.
Published Ground Conditions	British Geological Survey (BGS) mapping indicates that the site is entirely underlain by the White Limestone Formation (Principal Aquifer) with no superficial deposits. The entire site is also recorded as artificial ground by the BGS database (due to landfill). Gagle Brook is the closest flowing watercourse which is located in a shallow valley along the eastern edge of the wider Ardley landfill area, and approximately 200m south east of the area covered in this report.
Site Investigation	The ground investigation scope of works was completed on 17/12/2022 and comprised the following: • Non-intrusive survey of excavation locations for underground utilities; • Twenty one dynamic sampler boreholes; • Eleven cable percussive boreholes; • Eight gas and groundwater monitoring visits; • Chemical analysis of soils and groundwater; and • Geotechnical testing of soil.
Ground Conditions Encountered	The ground investigation undertaken identified the following geological sequence at the site: • Topsoil • Capping layer – typically 1 to 2m thick and composed of gravelly (limestone, brick concrete) clay. • Waste of low organic content – the covers most of the upper portion of the waste, typically around 2m thick, and is generally gravelly clay with various lower portions of waste such as paper, wood, plastics, etc. This typically forms the upper portion of the fill. • Waste of high organic content – this material comprises very limited natural soils and has a significant domestic waste composition, most typically, paper, woods, plastics, textiles, less commonly ash, metals and in rare cases localised hydrocarbon impact. These material were typically deeper and lie directly on the limestone (sometimes weathered). • Limestone of the White Limestone Formation (from between 7.0 and 11.8m bgl).
Environmental Appraisal	High levels of hazardous ground gases (carbon dioxide and methane) have been recorded across the site. As no proposed structures are proposed the risk is limited although the development will need to considered the existing gas management system and how this needs to be adapted / altered for the proposed development. In general, the soil chemical results have not identified significantly elevated contaminant concentrations apart from two elevated hydrocarbon concentrations at DS218A (4,100mg/kg) at 5.3m bgl, and at BH08 (3,700mg/kg) at 4.4-4.5m bgl. All asbestos IDs have come back negative. Slightly elevated ammonia, heavy metal, PAHs and trace VOCs were identified in the leachate

	of the landfill. The data has inferred that the leachate flows in an easterly direction. Based on the concentrations recorded and considering attenuation and dispersion. The concentrations currently present a limited risk to controlled waters. When considered in the context of the conceptual site model and the historical landfill activity, the proposed development is considered to pose a LOW risk to human health. No significant contaminants were identified, and the proposed development is considered of low sensitivity for human health risk. The risk posed to controlled waters is predominantly considered to be MODERATE/LOW. It is considered that the main driver for the risk rating for controlled waters is the infiltration of water into the soil creating leachate, which could reach the Principal Aquifer in the underlying bedrock. The development will need to be engineered in order to manage infiltrations and leachate.
Development implications	Localised hydrocarbon impact has been classified as hazardous, but otherwise the results are largely stable non-reactive hazardous waste or inert, except where there is significant organic content which increases the classification to hazardous on the basis elevated organic content and loss on ignition. Extensive rock excavation will be required to facilitate proposed site levels, where the rail alignment passes through the landfill walls.
Recommendations	The exposure to construction workers/services personnel can be mitigated by utilising appropriate PPE and maintaining good hygiene levels. The management of odours will need particularly consideration and an odour management plan prepared and implemented. The proposed development will require significant removal / reengineering or existing soils, which will need to be done in accordance with a CQA Plan, which will need to be approved by EA before implementation. The management / reuse of soils will also need to be agreed with the EA in consideration of the existing permit. The design will also need to consider: • Management of the leachate to limit infiltration so that contamination does not reach the groundwater. • Landfill gas management. • Odour management. In accordance with the recommendations of BRE Special Digest 1, 'Concrete in Aggressive Ground' 2005, the conditions of the soils at the site are classified as Design Sulphate Class AC3 DS-3.
This summary should be read in conjunction with BWB's full report (ref. OvSRFI-BWB-HGT-XX-RP-CE-0007-Ph2) and reflects an assessment of the Site based on information received by BWB at the time of production.	

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1. INTRODUCTION

Instruction

1.1 BWB Consulting (BWB) was instructed by Oxfordshire Railfreight Ltd (the Client) to carry out a Ardley Landfill Ground Investigation and Geo-Environmental Assessment to support the application for a proposed multi-modal Strategic Railfreight Interchange (SRFI) in line with the National Policy Statement (NPS) for National Networks (2014). Given the national significance of the proposed development, the Client is applying to the Secretary of State (via the Planning Inspectorate, or 'PINS') for a Development Consent Order (DCO) under the Planning Act 2008.

1.2 The proposed development is anticipated to comprise a multiple steel portal frame warehouse development with associated hardstand areas including parking, loading and road access. The development will also include a new rail freight terminal in the north of the site adjacent to the existing Chiltern Mainline Railway and the relocation of a waste treatment facility (composting), which is currently situated in the southern portion of the site. Ashgrove Farm located in the east of the site will be retained. The site will be served by new access routes including Ardley bypass to the north linking to the M40 Motorway and Middleton Stoney bypass to the south east. A copy of the draft masterplan is presented in **Drawing 1**. This report focusses on the portion of the development which is within the Ardley Landfill. Geo-environmental ground investigation and assessment of the new highways routes and Main Site Areas have been undertaken separately.

1.3 Within this area of land, the development is anticipated to comprise the proposed southern rail entry point from the Chiltern Mainline railway to the proposed Railfreight port at a level of circa 8.0m below existing surface levels, and the new Ardley bypass in the north west of the investigation area which is expected to cross the site at a level similar to existing site levels from a new roundabout on the B340 to the west and crossing over the Chiltern Mainline railway via a new bridge along the northern boundary of the investigation area. The latest development plans for this area of the site are included as **Drawing 2**.

Previous Reports

1.4 The following geo-environmental reports have previously been completed for the site:

- 'Oxfordshire SRFI - Off-Site Highways Phase 1 DS' by Hydrock for Oxfordshire Railfreight Interchange, reference 15560-HYD-OSH-XX-GE-RP-1002-S2-P1 -, dated 12/07/2021.

1.5 It is understood that the Client has reliance on the above reports and therefore pertinent information has been included within this report.

1.6 Additionally, several previous reports relating to the site and immediate surroundings are referenced within the Hydrock (2021) desk study report:

- 'Ardley Energy from Waste Facility, Ardley, Oxfordshire. Post Application Response: Hydrology and Hydrogeology' by SLR Consulting Limited, reference 409-0036-00349, dated July 2009;

- 'Ardley Quarry EfW. EIA Extract. Chapter 9. Geology Hydrology and Hydrogeology' by SLR, Unreferenced, Undated;
- 'Ardley Quarry EfW. EIA Extract. Chapter 11. Palaeontology' by SLR, Unreferenced, Undated;
- 'Land at Ashgrove Farm, Ardley, Oxon. Desk Study Report' by Hydrock, reference R/12421/001 Version 2, dated August 2014. (Included in this report were copies of boreholes by SLR from 2006);
- 'Geo-Environmental Site Investigation, Ashgrove Farm, Ardley' by BRD Environmental Ltd, reference BRD2409-OR-1, dated October 2015; and
- 'Hydrogeological Risk Assessment Review, Ardley Landfill' by Golder Associates for Viridor Waste Management, reference 19119012.602/A.1, dated February 2021.

1.7 Information from the Hydrock (2021) desk study report in relation to the above reports has been included where relevant.

1.8 It is understood that the Client has reliance on the above reports and therefore pertinent information has been included within this report, are provided on an information only basis where appropriate.

Objectives

1.9 The objectives of the report are to assess:

- The prevailing ground and groundwater conditions across the site;
- The potential presence and extent of contamination in shallow soil and groundwater beneath the site;
- The significance and magnitude of the observed contamination through comparison of analytical data to appropriate published environmental screening criteria;
- The strength properties of the soil beneath the site to assess geotechnical solutions;
- The ability to rework the soils for earthworks required to achieve the development platform;
- Any precautions required with respect to attack on buried concrete;
- Undertake a preliminary waste assessment; and
- The ground gas regime beneath the site.

1.10 The above objectives will allow the preliminary Conceptual Site Model presented in the Phase 1 report to be verified and updated. The report has been completed in accordance with BS10175:2011(+A2:2017) 'Investigation of Potentially Contaminated Sites, Code of Practice' and EA Guidance on Risk Management of Land Contamination https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm.

1.11 This report presents the information obtained from a desk study and the supplementary ground investigations and contains relevant factual information from the previous investigations undertaken by others. The report, together with the associated Figures

and Appendices, provides a Ground Investigation Report (GIR), as defined in BS EN 1997-1:2004 and BS EN 1997-2:2007

Scope of Works

1.12 The ground investigation scope of works was completed on 17/12/2022 and comprised the following:

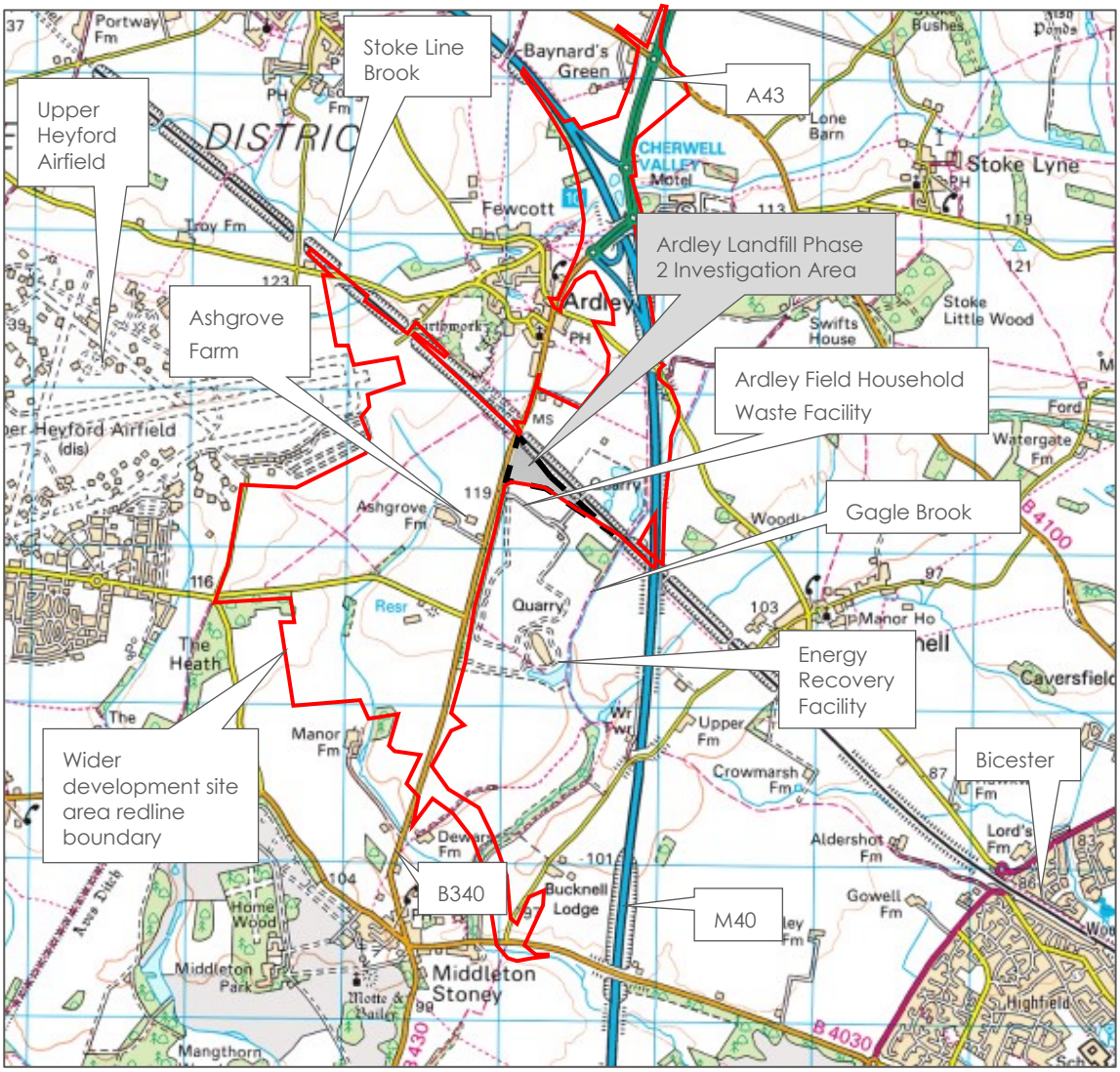
- Non-intrusive survey of excavation locations for underground utilities;
- Twenty one dynamic sampler boreholes;
- Eleven cable percussive boreholes;
- Eight gas and groundwater monitoring visits;
- Chemical analysis of soils and groundwater; and
- Geotechnical testing of soil.

2. THE SITE

Site Location

2.1 The site is located immediately east of the B430 and immediately south of the Chiltern Main Line Railway. It is also adjacent to the Ardley Household Waste and Recycling Centre and is located at National Grid Reference 454152, 226513. The location of the site is shown in **Figure 2-1.**

Figure 2-1 : Site Location Plan



Site Description

2.2 The Ardley Landfill area being investigated is a triangular shaped area of land that generally slopes towards the north east but with a decreasing elevation towards the south-east from approximately 122m above Ordnance Datum (AOD) to 113m AOD. The Chiltern Main Line is in a railway cutting (to the immediate north of the Ardley Landfill site). Most of the site area is covered by open grassland with hedgerows dividing the fields, Ardley Road and the B430 are lined with hedgerows/trees.

Previous Report Summary – Hydrock 2021 Desk Study Report

Introduction

2.3 The site was reported as part of the wider off site highways report and so the relevant information has been extracted for the purposes of this report. The report illustrates the geotechnical and environmental background for the site and includes a site walkover. It is noted that the Hydrock report refers to several other previous reports listed in **Section 1.6.** A summary of the ground conditions including geology, hydrology and hydrogeology have been included within this report within **Section** Error! Reference s ource not found..

Site History

2.4 Historically, the site has remained predominantly agricultural land, with Ashgrove Farm present to the south west of the site since the earliest available mapping (1870s). By the late 1910s, a railway line was constructed aligned southeast to northwest along the north east boundary of the site.

2.5 Ardley Quarry is shown from the late 1890s to the south of the site, which appears to expand north to south by the 1980s into the current site boundary (south of the railway). Limestone extraction continued at Ardley Quarry until the late 1990s and was progressively backfilled as Ardley Landfill; a refuse tip is labelled to the north of the quarry and south of the site from the early 2000s. The northern portion of the quarry appears to have been infilled by 2010, with the majority of Ardley Quarry infilled by 2019.

2.6 Ardley Energy Recovery Facility (ERF) is indicated to be under construction to the south by 2013. By the late 2010s, the ERF has been constructed. By 2020, Ardley / Dewars Farm quarry has been extended south and remains active, with the north western part appearing to be in the process of restoration.

Summary of Potential Contamination

2.7 A review of historical ground investigation reports for evidence of historical contamination was undertaken by Hydrock and is summarised in **Table 2-1** below, BWB has provided some clarity on location in bold and in brackets:

Table 2-1 : Evidence of Historical Contamination

Contamination Evidence from Hydrock Report	Location
On Site	
Significant elevated concentrations of ground gas (methane and carbon dioxide) at the landfill. Occasional elevated nickel concentrations recorded in groundwater.	Former Ardley Landfill

Mining

2.8 The site is not located within an area at risk of coal mining; however, several small-scale areas of mineral extractions (limestone pits and quarries) were located in the vicinity, with significant operations identified by Hydrock listed in **Table 2-2** below, BWB has provided some clarity on location in bold and in brackets:

Table 2-2 : Significant Mining Operations

Significant Mining Operations in the Vicinity of the Site	Location
The historical Ardley / Fields Farm Quarry	Mapped 70m south of the site but also known to have been on site.
The historical Ardley Wood Quarry Extension	North of the proposed highway works on the northern side of the railway line (approximately 470m north west off site)
The operational Ardley / Dewar's Farm Quarry. Historically, the quarry produced gabion stone, single size stone, crusher run and dust. At the current time the quarry is producing 6F5.	Main quarry to the south (approximately 1.2km south) off site

Waste Management Facilities

2.9 A review of waste management in the vicinity of the site was undertaken and a summary of the Hydrock findings is presented in **Table 2-3** below:

Table 2-3 : Waste Management

Waste Management in the Vicinity of the Site	Location
Historical Landfill (Ardley Landfill / Ardley Fields Farm) was licenced for inert, non-hazardous, stable non-reactive hazardous waste (in the form of asbestos) and hazardous waste. Dated from 1979 to 2014. The southern extension was operated as a co disposal landfill from July 2000.	Includes the current site area (on **site**)
Operational Household, Commercial & Industrial Waste Transfer Station, located at the former Ardley Landfill/Ardley Fields Farm Landfill. Wastes accepted include household, commercial and industrial waste.	Northern portion of former Ardley Landfill (**south off site**)
Operational ERF (Viridor) for the incineration of waste. Wastes accepted include household, commercial and industrial waste. Dated from 2014.	Southern portion of the former Ardley Landfill (**south off site**)
An **active biological treatment facility (Ardley Leachate Treatment Plant**) at Viridor ERF	Southern portion of the former Ardley Landfill (**south off site**)
Historical landfill (Ardley Wood) was licenced for inert, industrial, commercial, household, and liquid sludge. Dated from 1940 to 1980.	North of the proposed highway works on the northern side of the railway line (**north west off site**)
There are several waste exemptions in the vicinity of the site. However, Hydrock considered these not to be relevant to the site and are not considered further.	

2.10 Several regulatory controls were identified within the immediate area of the site, however, Hydrock considered these not to be a risk and are not considered further.

Site of Special Scientific Interest (SSSI)

2.11 Two SSSI's are recorded within the vicinity of the site and further details are provided in **Table 2-4** below:

Table 2-4 : Site of Special Scientific Interest (SSSI)

Site of Special Scientific Interest (SSSI) in the Vicinity of the Site	Location (Site Area)
Ardley Cutting and Quarry, which is designated due to geological interest for its exposures of Jurassic rocks and has biological interest associated with limestone grassland, scrub, ancient woodland, and wetland habitats. Dated from 1988. It is noted that this SSSI is listed as 'unfavourable – recovering'.	Along the northern edge of the site.
Ardley Trackways, which is designated due to the presence of fossilised dinosaur (sauropod and theropod footprints) which form trackways. Dated from 2010.	Southern unit at Ardley / Dewars Farm Quarry (**south off site**). Northern unit north of the railway line (**north off site**).

Other Considerations

2.12 A specialist UXO risk assessment was completed as part of the desk study report and the site was assessed as a low risk that items of UXO could be located within the site boundary.

3. PUBLISHED GROUND CONDITIONS

Published Geology

3.1 British Geological Survey (BGS) mapping indicates that the site is entirely underlain by the White Limestone Formation with no superficial deposits. The White Limestone Formation is a pale grey to off-white or yellowish peloidal bioclastic limestone with levels of sandy or muddy limestone and calcareous or silicate mudstone, typically, 7m to 18m thick. The entire site is also recorded as artificial ground by the BGS database (due to landfill).

3.2 It is noted in the Hydrock (2021) desk study report, that the White Limestone Formation is subdivided into the Blandon Member (clay/mudstone), the Ardley Member (limestone, wackestone, packstone and mudstone) and the Shipton Member (limestone, wackestone, packstone and mudstone), based on geological cross sections of the area.

3.3 An investigation by SLR (2009) (also noted in the Hydrock (2014) report) includes a number of boreholes (BH101 to BH124) advanced at the proposed location of the Ardley ERF facility, in the south-east of the former Ardley Landfill, to provide information with regard the planning application for the Ardley ERF. In summary, the geological sequence indicated by the SLR boreholes (presented in the Hydrock 2014) report was:

- Topsoil generally, between 0.2m and 0.3m (although locally not recorded, and locally up to 0.5m thick); over
- Soft or firm clay, generally between 0.3m and 0.7m thick, although locally not recorded, and locally up to 1.0m thick; over
- Limestone, generally between 5.5m and 6.5m thick (averaging 6.1m thick), although ranges from 3.8m to 7.2m thick (Ardley Member of the White Limestone Formation); over
- Soft clay, siltstone and mudrock, generally between 0.25m and 0.5m thick (averaging 0.55m thick), although ranges from not recorded to 2.0m thick (top of the Shipton Member of the White Limestone Formation); over
- Interbedded siltstone, mudrock and limestone (Shipton Member of the White Limestone Formation), with the Ardley Trackways SSSI horizon at the top of this sequence; over
- Mudrock and interbedded limestone of the Rutland Formation / Hampen Formation.

Hydrogeology

3.4 The groundwater body beneath most of the site is the Tackley Jurassic body and is classified as Good Chemical and Quantitative status under the Water Framework Directive (EEA, 2021) for the latest available year (2019). The Upper Bedford Ouse Oolite Principal 1 groundwater body is present beneath the far northern portion of the site and is classified as Good Chemical and Quantitative status for the same year.

3.5 The underlying ground conditions have been classified by the Environment Agency (EA) as follows:

- Made Ground (Imported Fill): Unclassified/unproductive Aquifer; and

- White Limestone Formation: Principal Aquifer.

3.6 There are no active licensed potable groundwater abstractions on or within 1km of the site. The site is not located in a groundwater Source Protection Zone.

3.7 The Golders Hydrogeological Risk Assessment Review Report makes reference to monitoring wells that are installed into the Principal Limestone Aquifer in and around the site. This confirms that there are several diffuse aquifers in the limestone separated by mudstone beds, but which all generally flow in a south easterly direction towards Gagle Brook.

Hydrology

3.8 The closest mapped surface water feature to the site is a small pond located in the northern area of the site and is fenced off from the main site area. There are also several ponds between 70m and 370m north east of the site on the opposite side of the Chiltern Mainline Railway. Gagle Brook is the closest flowing watercourse which is located in a shallow valley along the eastern edge of the wider Ardley landfill area, and approximately 200m south east of the area covered in this report.

3.9 The River Cherwell is approximately 3km west of the site, flowing southwards and the River Ray is approximately 10km to the south-east of the site flowing to the south-west. The wider area is largely devoid of major watercourses due to the presence of the limestone plateau and its relatively high permeability and porosity.

3.10 There are no active licensed surface water abstractions on or within 1km of the site.

3.11 The site is considered by the EA to be at low risk of flooding (less than 1 in 1000 (0.1%) from rivers and the sea, with no noted flood defences or flood water storage areas in the vicinity of the site.

4. PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

Introduction

4.1 The risk posed by any contaminants in soil or groundwater will depend on the nature of the hazard, the probability of exposure, the pathway by which exposure occurs, and the likely effects on the receptors. A contaminant is defined as a substance that has the potential to cause harm, while a risk is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.

4.2 The following sections discuss all the identified potential on and off-site sources, pathways and receptors in the context of the proposed development and plausible pollutant linkages which may represent a risk to identified receptors such as human health and/or controlled waters from the data gained from the desk study. The pollutant linkages considered in this assessment are only though carried forwards from the desk study which are relevant to this site. At this stage the assessment is qualitative and aimed to determine all pollutant linkages, irrespective of significance or allowing for uncertainty.

4.3 Three impact potentials exist for any given site; these are:

- The site impacting upon itself;
- The site impacting on its surroundings; and
- The surroundings impacting on the site.

4.4 All three impacts need to be considered in a risk assessment.

4.5 A Source, Pathway, Receptor analysis has been undertaken for the site based on the information provided in the preceding sections. This is presented as **Table 4-1** and further information about the risk classification scheme is included within **Appendix 11**.

4.6 Sources (S); These are potential or known sources of contamination that may relate to a former land use or present site feature or process (e.g. fuel storage tanks).

4.7 Pathways (P); A pathway is defined as a mechanism or route by which a contaminant comes into contact with, or otherwise affects a receptor. Pathways by which the identified receptors may be impacted upon in the context of the proposed development.

4.8 Receptors (R); Receptors are defined as people, living organisms, ecological systems, controlled waters, atmosphere, structures and utilities that could be adversely affected by contaminant(s).

Table 4-1 : Preliminary Conceptual Site Model

Source	Pathway	Receptor	Con	Prob	Risk
S1: On site: Made Ground – Potential contaminants may include complex	**P1:** Direct contact, incidental ingestion and inhalation of particulates.	**R1**: Construction/ services personnel	Md	Lw	M/L
		R2: Future site users (commercial)	Md	Ul	L

Source	Pathway	Receptor	Con	Prob	Risk
cyanide, benzo(a)pyrene and other PAH compounds, ammonium, arsenic, zinc, boron, copper, sulphate, asbestos and hazardous ground gases (carbon dioxide/methane).	**P2:** Vertical migration of contaminants in the soil leachate.	**R3:** Underlying Principal Aquifer (White Limestone Formation)	Md	Lw	M/L
	P3: Lateral migration of contaminated groundwater.	**R4:** The River Cherwell (approximately 3km west of the site)	Md	L	M/L
	P4: Direct contact.	**R5:** Water utility pipes	Md	Lw	M/L
		R6: Buried structures/ foundations.	Md	Li	M
	P5: Migration and accumulation of ground gasses in enclosed spaces leading to asphyxiation (carbon dioxide).	**R2**: Future site users	Md	Ul	L
	P6: Migration and accumulation of ground gasses in enclosed spaces leading to explosion (methane).	**R2**: Future site users	Md	Ul	L
S2: On site VOC vapours	**P2**: Migration into buildings through foundation cracks, service entry points	**R4:** Future site users	Md	Li	M

VH = Very High, H = High, M = Moderate, M/L = Moderate/Low, L = Low, VL = Very Low

KEY: Sv = Severe, Md = Medium, Mi = Mild, Mr = Minor Hi = High, Li = Likely, Lw = Low Likelihood, Ul = Unlikely

5. PHASE II ENVIRONMENTAL AND GEOTECHNICAL GROUND INVESTIGATION

5.1 The ground investigation scope and methodology was agreed prior to implementation by the Landfill Operator Valencia, and the Environment Agency. The works were undertaken in accordance with a Construction Quality Assurance (CQA) Plan prepared by BWB ref. OxSRFI-BWB-ZZ-XX-SP-YE-0001_CQA-S2-P5, dated October 2022. A CQA validation report will be prepared separately. Intrusive ground investigation works were undertaken between 15/11/22 and 17/12/22 and comprised the following works:

- Clearance of investigation locations by a specialist buried services tracing company;
- Collection of coordinates and elevations of exploratory hole locations;
- The advancement of 21 cable percussive boreholes (BH01 to BH09 inclusive) to a maximum depth of 11.95 bgl with completion of SPTs and installations of gas and groundwater monitoring wells;
- Advancement of 11 boreholes (DS201 – DS219A) by dynamic sampling drilling techniques, to a maximum depth of 5.80m bgl with completion of SPTs and installations of gas and groundwater monitoring wells;
- Collection of environmental soil and groundwater water samples for chemical analysis at a UKAS and MCERTS accredited laboratory;
- Collection of bulk and disturbed soil samples for geotechnical analysis at a UKAS accredited laboratory; and
- Eight post investigation ground gas and groundwater level monitoring visits (four completed to date).

5.2 An exploratory hole location plan is presented as **Drawing 3**. BWB exploratory hole records are presented as **Appendix 1**, Drillers' Logs are presented as **Appendix 2**, the SPT calibration certificate is presented in **Appendix 3**, and the post investigation gas and groundwater monitoring data is presented as **Appendix 4**.

5.3 The site investigation works were carried out in general accordance with BS5930:2015 'Code of Practice for Site Investigations' and BS10175:2011 'Investigation of Potentially Contaminated Sites'.

Chemical Sampling Strategy

5.4 There was a non-targeted sampling strategy, considering the anticipated site-wide deep Made Ground (of landfill origin). Samples of Made Ground were taken and subjected to testing to inform preliminary assessments of the potential for re-use of soils for fill and/or landscaping. Cable percussive boreholes included single groundwater and gas installations to monitor and characterise the underlying groundwater regime within the Made Ground deposits as indicated on borehole logs and in **Table 5-1** below.

Table 5-1 : Well Installations Response Zones

Location	**Length of** Response Zone	Stratum
BH01	5.90m	Made Ground

Location	**Length of** Response Zone	Stratum
BH02	4.50m	Made Ground
BH03	4.70m	Made Ground
BH04A	5.20m	Made Ground
BH05A	4.50m	Made Ground
BH06	2.95m	Made Ground
BH07	2.95m	Made Ground
BH08	4.20m	Made Ground
BH09	8.85m	Made Ground

Chemical Analytical Strategy

Soil Strategy

5.5 Selected soil samples collected from exploratory hole locations were sent to I2 Analytical Ltd (UKAS and MCERTS accredited) for chemical analysis. The following chemical analytical testing was undertaken:

- Forty seven soil samples tested for a soil suite (BWB Standard Suite) comprising arsenic, barium, beryllium, water soluble boron, cadmium, chromium, hexavalent chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, water soluble sulphate (2:1 extract), total phenols, total cyanide, free cyanide, complex cyanide, fraction of organic carbon, pH, Polycyclic Aromatic Hydrocarbons (PAHs) (United States Environment Protection Agency priority 16 compounds) and Total Petroleum Hydrocarbons (TPH) C6-C40;
- Fifteen soil samples tested for TPH speciated to the UK Criteria Working Group (TPHCWG) aliphatic and aromatic compounds including BTEX;
- Fourteen samples for volatile and semi-volatile organic compounds (VOCs and SVOCs)
- Forty-nine soil samples for asbestos screening;
- Thirteen soil samples tested for polychlorinated biphenyls (PCBs);
- Fifteen soil samples tested for a suite of common leachable contaminants, namely arsenic, barium, beryllium, water soluble boron, cadmium, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, water soluble sulphate (2:1 extract), sulphate, total cyanide and pH; and
- Eight soil samples for WAC (Waste Acceptance Criteria) testing

5.6 The results of the soil chemical testing are presented as **Appendix 5.**

Groundwater Strategy

5.7 Groundwater samples obtained on two occasions using a low flow sampling technique with multiparameter water meter to obtain representative samples. The groundwater samples were sent to I2 Analytical Ltd (UKAS and MCERTS accredited) for the following suite of groundwater chemical testing:

- Nine water samples on two occasions from installed boreholes and tested for arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, vanadium, zinc, conductivity, soluble sulphate, ammoniacal nitrogen, total phenols, total cyanide, pH, total organic carbon, PAHs (US EPA priority 16 compounds).

5.8 The results of the water chemical testing are presented as **Appendix 6**.

Geotechnical Strategy

5.9 The cable percussive borehole locations were positioned across the site to assess underlying ground conditions for geotechnical purposes. The trial pits were positioned to assess ground conditions, strength properties and characteristics across the wider site. In-situ soil strength testing comprising SPTs were undertaken with the cable percussive boreholes. SPT 'N' values are included on the exploratory hole logs presented as **Appendix 2**.

5.10 Selected disturbed and bulk samples were collected from the investigation locations and sent to the geotechnical project laboratory (I2 Analytical Ltd), which is UKAS accredited. The following geotechnical testing was undertaken;

- Nineteen samples tested for moisture content;
- Ten10 samples tested for Atterberg (liquid and plastic) limits;
- Eight samples tested for particle size distribution by pipette;
- Nine Particle Density Classification Testing;
- Ten samples tested for BRE Suite comprising aqueous sulphate and pH;
- Ten 2.5kg compaction tests; and
- One 4.5kg compaction test.

5.11 The results of the geotechnical testing are included as **Appendix 7**.

Limitations and Uncertainty

5.12 Drilling works by dynamic sampling were unable to achieve their full range of depth (5.45m) with most of these boreholes terminating in the Made Ground. This was due to the highly organic, soft, compressible nature of the deeper layers, which dropped out of the sampling barrel.

6. GROUND CONDITIONS ENCOUNTERED

Geological Summary

6.1 The ground conditions recorded confirmed the published geology discussed in the Phase 1 report compromising topsoil over Made Ground (landfill material), over the White Limestone Formation.

6.2 The recorded ground conditions are summarised in **Table 6-1** below. Uncorrected SPT results collected from the borehole locations are presented on the exploratory hole records presented in **Appendix 6**.

Table 6-1 : Summary of Ground Conditions

Stratum	Top Depth (m)		Base Depth (m)		Thickness (m)		SPT N Value	
	Min	Max	Min	Max	Min	Max	Min	Max
Topsoil	Ground Level		0.07	0.46	0.07	0.46	-	
Made Ground	0.07	0.46	1.30	11.80	1.15	11.6	2	>50
White Limestone Formation	1.30	11.80	Not proven		Not proven		>50	

Geological Descriptions

Topsoil

6.3 Topsoil was encountered consistently across the site at thicknesses of between 0.07m and 0.46m. The composition also displayed consistency, typically comprising soft dark brown slightly gravelly slightly clayey sandy silt with occasional rootlets, or soft dark brown slightly gravelly silty sandy clay with occasional rootlets. Topsoil was generally topped by grass.

6.4 The depth of topsoil over the site may vary from that encountered at the locations investigated within the scope of this investigation which may result in inaccurate estimations of topsoil quantities on the site.

Made Ground

6.5 Made Ground was encountered within all exploratory holes at the site beneath the Topsoil at the site with thicknesses ranging between 1.15m and 11.60m. Inferred Made Ground thicknesses across the site are indicated on **Drawing 4**.

6.6 In general, there is two different Made Ground strata. The upper layer comprised reworked cohesive material with a variable in sand and gravel content which was acting as a capping layer. The second strata can be sub divided into two layers of landfill waste with the initial 1 to 2m typically comprising cohesive soils similar to the capping layer but with low quantities of organic material. This overlies domestic waste with reduced quantities of gravelly clay. Domestic waste materials typically consisted of plastic/paper/clothing/fabric and glass fragments, again with varying sand and clay

content. Organic and/or hydrocarbon odours are more common with the second Made Ground encountered strata.

6.7 SPT N_{60} values within the Made Ground were recorded in the range 2 and >50 blows. A plot of corrected SPT 'N_{60}' Value Vs Depth is presented as **Figure 6-1** below.

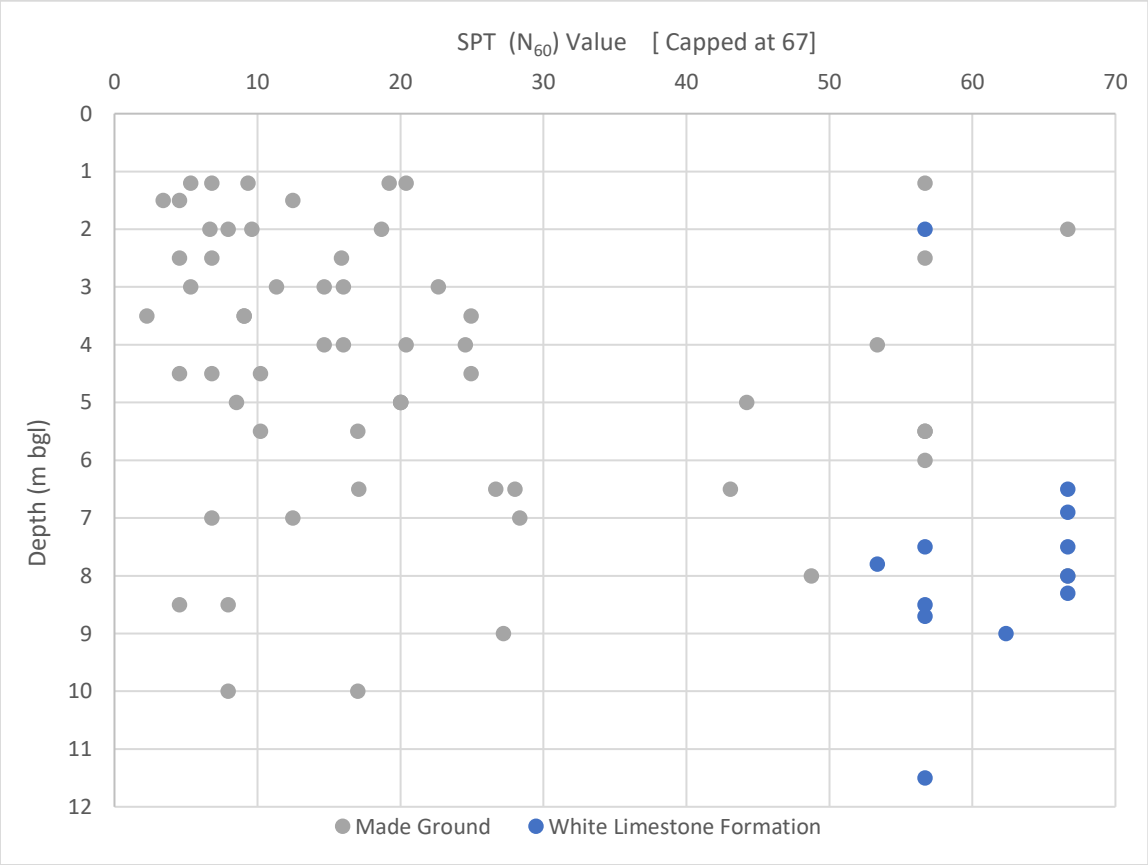
White Limestone Formation

6.8 The White Limestone Formation was encountered in BH01, BH02, BH03, BH04A, BH05, BH06, BH07, BH08, BH09, and DS210 beneath the Made Ground strata. Depths of The White Limestone Formation deposits are not proven and therefore thicknesses of the strata were not proven.

6.9 The White Limestone Formation was initially encountered as a yellowish brown and grey limestone. A thin layer of firm thinly laminated grey slightly sandy clay was recorded above the more competent Limestone at BH01 and DS210, whilst a light brown and grey clayey sandy gravel was recorded over the limestone at BH05.

6.10 All SPT N_{60} values within the White Limestone Formation were recorded as >50 blows. A plot of corrected SPT 'N_{60}' Value Vs Depth is presented as **Figure 6-1** below.

Figure 6-1 : Corrected SPT 'N' Value (N_{60}) Versus Depth



Hydrogeology and Hydrology

6.11 Groundwater strikes were encountered in every cable percussive borehole, as well as five dynamic sampling boreholes. The water strikes are associated with landfill leachate and not the surrounding aquifers. The results are summarised below in **Table 6-2.**

Table 6-2 : Water Strikes during Ground Investigation

Location	Depth (m)	Stratum
BH01	6.30	Made Ground
BH02	3.00	Made Ground
	5.80	Made Ground
BH03	5.00	Made Ground
BH04A	5.00	Made Ground
BH05A	7.00	Made Ground
BH06	6.10	Made Ground
BH07	5.00	Made Ground
BH08	6.00	Made Ground
BH09	10.30	Made Ground
DS208	2.20	Made Ground
DS209	1.20	Made Ground
	4.50	Made Ground
DS215	1.00	Made Ground
DS216	1.50	Made Ground
DS217	2.70	Made Ground

6.12 Post investigation, leachate levels in boreholes have been recorded on four occasions with a summary of the results provided in **Table 6-3** below.

Table 6-3 : Leachate Level Monitoring Results

Exp Hole	GW1 depth (m bgl)	GW2 depth (m bgl)	GW3 depth (m bgl)	GW4 depth (m bgl)
Min	**1.58**	**1.64**	**2.04**	**2.48**
Max	**6.86**	**6.65**	**6.74**	**6.82**
Mean	**4.08**	**4.05**	**4.30**	**4.42**
BH01	4.31	4.24	4.45	4.64
BH02	4.60	4.54	4.82	5.05
BH03	3.02	3.02	2.84	2.92
BH04A	3.37	3.38	3.92	4.03
BH05A	2.76	3.02	3.45	3.59
BH06	5.29	5.12	5.66	5.37
BH07	1.58	1.64	2.04	2.48

Exp Hole	GW1 depth (m bgl)	GW2 depth (m bgl)	GW3 depth (m bgl)	GW4 depth (m bgl)
BH08	4.95	4.80	4.77	4.91
BH09	6.86	6.65	6.74	6.82

6.13 Leachate data has been used to create an inferred leachate flow plot across the site. This drawing is presented as **Drawing 5** which indicated that the leachate generally flows in a easterly direction through the landfill material.

Contamination

6.14 The contamination observations made during the ground investigation are summarised in **Table 6-4** below. An organic odour associated with the landfill material was frequently observed, and not summarised in **Table 6-4** below. A hydrocarbon odour was noted at BH01, BH02, BH06, BH07, BH08 and BH09 during the ground gas monitoring.

Table 6-4 : Contamination Observations

Location	Depth (m bgl)	Comments
BH01	2.0 - 3.0	Hydrocarbon odour
BH02	0.9 – 2.8	Slight hydrocarbon odour
BH03	2.4 – 3.0	Slight hydrocarbon odour
BH09	9.0 – 11.8	Moderate hydrocarbon odour
DS202	2.1 – 2.2	Light hydrocarbon odour
DS203	1.3 – 3.2	Light hydrocarbon odour
DS208	2.2 – 2.6	Light hydrocarbon odour
DS212	2.1 – 2.4	Light hydrocarbon odour
DS216	2.6 – 2.7	Moderate hydrocarbon odour
DS218A	1.8 – 2.0	Strong hydrocarbon odour

7. GROUND GAS ASSESSMENT

Introduction

7.1 No buildings are anticipated to be constructed on the site, with only new road and rail infrastructure anticipated. Ground gas assessment has been undertaken to assess the risks associated with ground gases and volatile vapours in relation to the potential for gas migration to other areas of concern. The results obtained have been assessed in line with relevant guidance (notably CIRIA C665).

7.2 Based on the desk study and the ground investigation undertaken, the organic materials in the landfill are the principal potential source of hazardous ground gas with no other significant sources identified.

7.3 Based on the potential sources identified, CIRIA C665 guidance indicates that for a site with (high) gas generation potential and a (low) sensitivity development (road land use). To date, four visits over a period of two months have been undertaken on site. A further four rounds are to be undertaken and this assessment will be updated in due course.

Methodology

7.4 The assessment of potential ground gas generation is based on the observation of trends and changes in gas evolution by the direct measurement of ground gases from gas wells. The works included measurement of methane, carbon dioxide, oxygen, hydrogen sulphide, carbon monoxide, gas flows and barometric pressure. A PID survey was undertaken to measure volatile organic compounds within the borehole response zones.

Results

7.5 The minimum and maximum steady state concentrations recorded for borehole flow, oxygen, carbon dioxide and methane are summarised below in **Table 7-1**. The full ground gas monitoring results are presented in **Appendix 4**.

Table 7-1 : Summary of Recorded Ground Gas Results

Borehole ID	Targeted Geology	Steady Flow (l/hr)		Carbon Dioxide (%v/v)		Methane (%v/v)	
		min.	max.	min.	max.	min.	max.
BH01	Made Ground (Granular Landfill)	0.6	3.4	18.2	31.3	70.0	*79.1*
BH02	Made Ground (Granular Landfill)	0.4	8.1	24.3	26.7	67.3	72.8
BH03	Made Ground (Granular Landfill)	<0.1	0.8	2.1	3.3	3.0	56.4
BH04A	Made Ground (Granular Landfill)	<0.1	62.6	31.1	32.9	66.1	68.9
BH05A	Made Ground (Granular Landfill)	<0.1	<0.1	1.1	4.2	0.2	8.1

Borehole ID	Targeted Geology	Steady Flow (l/hr)		Carbon Dioxide (%v/v)		Methane (%v/v)	
		min.	max.	min.	max.	min.	max.
BH06	Made Ground (Granular Landfill)	118.9	*120.0*	30.7	*36.1*	63.5	67.6
BH07	Made Ground (Granular Landfill)	<0.1	119.3	27.0	35.4	55.4	66.6
BH08	Made Ground (Granular Landfill)	0.3	7.8	0.1	30.3	0.1	72.9
BH09	Made Ground (Granular Landfill)	0.2	22.0	2.7	*36.1*	6.5	68.5

7.6 The atmospheric pressures were recorded as follows:

- Round 1 – Falling from 985mB to 983mB during the site visit with regional weather station data indicating pressures to be falling from 988mB to 983mB over the preceding 12 hours;
- Round 2 – Rising from 1004mB to 1007mB during the site visit with regional weather station data indicating pressures to be rising from 990mB to 996mB over the preceding 12 hours.
- Round 3 – Falling from 1021mB to 1020mB during the site visit with regional weather station data indicating pressures to be falling from 1018mB to 1015mB over the preceding 12 hours.
- Round 4 - Rising from 1004mB to 1006mB during the site visit with regional weather station data indicating pressures to be rising from 994mB to 999mB over the preceding 12 hours.

7.7 Hydrogen sulphide and carbon monoxide concentrations were also intermittently recorded above the limit of detection of the equipment during the monitoring visits. Elevated hydrogen sulphide has been recorded at BH06 with a maximum concentration of 60ppm, recorded during the 1st and 2nd round of monitoring.

7.8 PID concentrations were recorded between <0.1ppm (the limit of detection of the equipment) and a maximum of 4.9ppm.

Risk Assessment

7.9 Although high gas and flow levels have been recorded, no buildings are expected to be built on site, so the proposed development has a low sensitivity. The main risks are associated with the migration of gas to surrounding areas, and to Human Health during ground works.

7.10 CIRIA Report 665 "Assessing Risks Posed by Hazardous Ground Gases to Buildings" presents current best practice on the assessment of ground gases for commercial and residential buildings (except for low-rise traditional housing). The report presents a risk-based approach based on gas screening levels which depend on both the concentration and emission rate of gas from the ground. Gas screening levels are calculated as follows:

$$Gas\ screening\ value\ (l/hr)\ = \frac{gas\ concentration\ (\%)\ X\ measured\ borehole\ flow\ rate\ (l/h)}{100}$$

Gas screening values have been calculated using the data obtained to date on a borehole basis in the first instance. Maximum gas screening levels of 94.92 were recorded giving a classification of 6, with borehole specific gas screening values and CIRIA risk classification presented in **Table 7-2** below.

Table 7-2 : Gas Screening Values and Risk Classification

Borehole Ref.	GSV (l/hr)	Borehole Specific CIRIA Risk Classification
BH01	2.689	**3**
BH02	5.897	**4**
BH03	0.451	**2**
BH04A	43.131	**5**
BH05A	0.008	**2**
BH06	81.120	**6**
BH07	79.454	**6**
BH08	5.686	**4**
BH09	15.070	**5**

7.11 This assessment will be updated on completion of the monitoring programme.

8. CONTAMINANT DISTRIBUTION

Soil Results

8.1 The ground investigation comprised nine cable percussive boreholes and 29 dynamic sampling boreholes, with contaminant testing evenly distributed across the site to get an even spread of possible contamination. The landfill contains mixed waste with some organics. The license specifies that the waste can contain up to 5% "difficult waste". The logs show waste with low organic content from around 1.5m: gravelly clay with occasional organics, decomposed wood and plastic bags, and waste with high organic content typically from around 3m; which included paper, wood, clothes, carpets, plastic bags and occasional rubber and glass fragments.

8.2 The results of the soil chemical laboratory results are provided within **Appendix 5** with a table summarising the results presented as **Appendix 8**.

General Landfill Waste

8.3 Slightly elevated concentrations of total TPH were found across the site, most notably in DS218A (4,100mg/kg) and BH08 (3,700mg/kg), correlating with hydrocarbon impact and odours noted while logging.

8.4 VOCs were recorded above the limits of detection in two locations; BH09 at 3.4 – 3.5m bgl, and BH02 at 3.4 – 3.5m bgl. At BH09, trace 1,3,5-Trimethylbenzene (8.5µg/kg), 1,2,4-Trimethylbenzene (39µg/kg), and sec-Butylbenzene (6.2µg/kg) were recorded. At BH02, concentrations of Trichloromethane (34µg/kg), Tetrachloroethene (190µg/kg), Isopropylbenzene (25µg/kg), n-Propylbenzene (170µg/kg), 1,3,5-Trimethylbenzene (790µg/kg), 1,2,4-Trimethylbenzene (3,700µg/kg), p-Isopropyltoluene (29µg/kg), and 1,4-Dichlorobenzene (24µg/kg) were recorded.

8.5 Trace SVOCs were recorded at several locations within the landfill material, with recordable concentrations of Aniline (max 1mg/kg), 1,3-Dichlorobenzene (max 0.3mg/kg), 4-Methylphenol (max 0.2mg/kg), 2-Methylnaphthalene (max 1mg/kg), Dibenzofuran (max 0.4mg/kg), Azobenzene (max 0.5mg/kg), Dibutyl phthalate (max 0.9mg/kg), Butyl benzyl phthalate (max 13mg/kg) recorded.

8.6 PCBs were not recorded below above the limits of detection.

8.7 The remainder of contaminants tested were recorded at background levels. Asbestos traces were not present in any of the screened samples.

Soil Leachate Results

8.8 Leachate assessments were undertaken for freshwater and drinking water supply, presented in **Appendix 8**. The leachate assessment for freshwater shows that there are elevated levels of copper, nickel, zinc, sulphate and lead in the soils. When compared against the criteria for drinking water supply, there are exceedances for arsenic, nickel, sulphate and boron. The presence of heavy metals is due to the metal contained in the landfill waste across the site. The soil leachate laboratory results are presented in **Appendix 5**.

Groundwater Results

8.9 Groundwater assessments were undertaken for freshwater and drinking water supply, presented in **Appendix 9**. Elevated levels of copper, nickel, sulphate and boron were identified, sourced from the contaminants in soil identified in the leachate assessment.

8.10 Contaminants not sourced from the leachate include Chromium III, Ammonia, Phenols, Benzene, Aromatic EC10-16, Anthracene, Fluoranthene, Naphthalene, and Total PAH.

8.11 Concentrations of Trichloroethene, Chlorobenzene, Isopropylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, 2-Chlorophenol, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 4-Methylphenol, 2-Methylnaphthalene were recorded.

8.12 The groundwater laboratory results are presented in **Appendix 6**.

9. HUMAN HEALTH RISK ASSESSMENT

9.1 Contamination data have been compared to generic site assessment criteria (GSAC) for Public Open Space. The soil chemical laboratory results are presented as **Appendix 5**. The criteria include reference to the LQM/CIEH S4ULs for Human Health Risk Assessment Copyright Land Quality Management Limited reproduced with permission; publication number S4UL3271.

9.2 The GSACs have been developed with the following assumptions which have been changed from the CLEA default parameter set. Soil type is a sandy loam with an organic matter content of 2.5%. This is considered to be more representative of shallow Made Ground found on most Brownfield sites than the CLEA default of 6% organic matter.

Pathways

9.3 Contamination data have been compared to generic site assessment criteria (GSAC) for public open space (i.e. using all pathways for that end use) based on an organic matter content of 2.5%. Exposure pathways considered in this assessment are presented in **Table 9-1**.

Table 9-1 : Public Open Space Exposure Pathways

Source	Shallow Soils		Deep Soils
Pathway	Public Open Space	Public Open Space Hard standing areas	Public Open Space
Ingestion of Soil	✓	×	×
Ingestion of site derived household dust	✓	×	×
Ingestion of contaminated vegetables	×	×	×
Ingestion of soil attached to vegetables	×	×	×
Dermal contact with Soil	✓	×	×
Dermal contact with site derived household dust	✓	×	×
Inhalation of fugitive soil dust	✓	×	×
Inhalation of fugitive site derived household dust	✓	×	×
Inhalation of vapours outside	✓	✓	✓
Inhalation of vapours inside	×	×	×

Sources

Soil

9.4 None of the samples tested produced results above the screening criteria.

9.5 Elevated concentrations of total TPH were found in DS218A and BH08, at 4,100mg/kg and 3,700mg/kg respectively. These correlate with moderate (BH08) and strong (DS218A) hydrocarbon odours noted on the logs. There were also slightly elevated total

TPH concentrations in DS213, DS202, DS205, BH09, BH05A and BH04A, at depths ranging from 1.8m to 8.0m bgl. However, these results were all below 1,000mg/kg and so are of limited significance. All speciated TPH concentrations were recorded below the limits of detection.

9.6 Elevated concentrations of Benzo(a)pyrene as a surrogate marker (8.1mg/kg) were found in BH04A at 3-3.10m bgl. This suggests the possible presence of coal tar.

Groundwater

9.7 No significantly elevated volatile contamination was found that could present a vapour risk. This is supported by the absence of significantly elevated PID readings recorded during the ground gas monitoring.

10. CONTROLLED WATERS RISK ASSESSMENT

10.1 The results of soil leachate analysis and groundwater sampling are presented as **Appendix 5** and **Appendix 6** respectively. Soil leachability testing has been undertaken for a number of metals in the Made Ground, the results of which are presented within **Appendix 5**. The potential controlled water receptors considered in this assessment are:

- Principal Aquifer beneath the site within the White Limestone Formation bedrock; and
- Surface watercourse (Gagle Brook) to the south east of the site and the River Cherwell approximately 3km west of the site.

Pathways

10.2 Controlled water risk assessment has been undertaken through assessment of leachable concentrations of contaminants in soil referring to exposure pathways considered and referencing **Table 10-1**.

Table 10-1 : Controlled Water Exposure Pathways

Controlled Waters Exposure Pathway	Receptor
Leaching of soil contamination into recharge infiltration	✓
Vertical migration of impacted pore water through unsaturated zone into underlying aquifer	✓
Horizontal migration of groundwater through aquifer to off site receptors	✓

10.3 The site is underlain by the White Limestone Formation (Principle Aquifer), with no superficial deposits. Therefore, in the presence of a sensitive potable supply it is considered appropriate to assess groundwater quality and soil leachate concentrations according to both environmental quality standards (EQS) for freshwater to assess the risk to surface water receptors and UK Drinking Water Standards (DWS) for the underlying aquifer. Where EQS or DWS are not available, World Health Organisation Standards (WHO), Environmental Quality Standards (EQS) and UK Drinking Water Standards (DWS) have been adopted as the relevant screening criteria.

Soil Leachability

10.4 A summary of the soil leachate concentrations and adopted guideline concentrations are presented within **Appendix 8**. The leachate assessment for freshwater shows that there are elevated levels of copper, nickel, zinc, sulphate and lead in the soils. When compared against the criteria for drinking water supply, there are also exceedances for arsenic and boron. The presence of heavy metals is due to the metal contained in the landfill waste across the site.

10.5 A table showing the locations of any leachate contaminants with exceedances of the EQS guidelines is presented in **Table 10-2** and of the DWS guidelines in **Table 10-3**.

Table 10-2 : Soil leachate Exceedances of EQS Guideline Concentrations

Borehole	Copper µg/l	Lead µg/l	Nickel µg/l	Zinc µg/l	Sulphate µg/l
EQS Guideline	1.0	1.2	4.0	10.9	400
DS217	9.0			13.0	
DS219	9.4		6.0	14.0	588.0
DS216	6.9				
BH07	24.0	2.3	9.2	22.0	
BH06	7.2		5.9	17.0	615.0
DS209	18.0		25.0	29.0	602.0
DS201	4.6			18.0	
DS203	10.0	2.5	5.8	13.0	516.0
DS206	11.0		4.6	16.0	413.0
BH05A	9.0	3.8	7.5	21.0	
BH04A	35.0	3.8	34.0	25.0	
BH01	12.0			33.0	
BH08	37.0	8.7	16.0	40.0	
BH02	21.0		80.0	25.0	

Table 10-3 : Soil Leachate Exceedances of DWS Guideline Concentrations

Borehole	Arsenic µg/l	Nickel µg/l	Sulphate µg/l	Boron µg/l
DWS Guideline	10.0	20.0	250.0	300
DS217			274.0	
DS219			588.0	
BH07				350.0
BH06			615.0	
DS209		25.0	602.0	540.0
DS203			516.0	
DS206			413.0	
BH05A				350.0
BH04A	18.0	34.0		400.0
BH02		80.0		

10.6 The guidelines are for freshwater and drinking water, and the concentrations recorded are for pure leachate. As the leachate travels through the landfill, it will undergo attenuation as contaminants are absorbed into the surrounding material. Once the leachate reaches the groundwater, it will then be dispersed, causing further reduction of the contamination concentrations. This, combined with the fact that the recorded concentrations are within an order of magnitude of the guideline concentrations, indicates that the exceedances are still representative of acceptable concentrations.

Groundwater

10.7 Elevated levels of copper, nickel, sulphate and boron were identified, likely to be sourced from the soil contaminants identified in the leachate assessment.

10.8 Contaminants not sourced from the leachate include Chromium III, Ammonia, Phenols, Benzene, Aromatic EC10-16, Anthracene, Fluoranthene, Naphthalene, and Total PAH.

10.9 A groundwater concentration screening sheet is presented as **Appendix 9**. A table showing the locations of any groundwater contaminants with exceedances of the EQS guidelines is presented in **Table 10-4** and of the DWS guidelines in **Table 10-5**.

Table 10-4 : Groundwater Exceedances of EQS Guideline Concentrations

Borehole	Chromium III µg/l	Copper µg/l	Nickel µg/l	Sulphate µg/l	Phenol µg/l	Ammonia mg/l	Aliphatic C12-C16 µg/l	Aliphatic C16-C21 µg/l	Aliphatic C21-C35 µg/l	Aromatic EC8-EC10 µg/l	Aromatic EC10-EC12 µg/l	Aromatic EC12-EC16 µg/l	Anthracene µg/l	Fluoranthene µg/l	Naphthalene µg/l	Total PAH µg/l
EQS Guideline	4.7	1.0	4.0	400	7.7	0.015	10	10	10	10	10	10	0.01	0.0063	2.0	0.1
BH01			9.0	479		26.0					20.0	20.0			3.71	4.77
BH02		1.4	5.9			42.0	70.0	30.0			40.0	30.0			3.28	4.15
BH03						110					40.0	50.0			4.29	5.40
BH04A			28.00			25.0					80.0	60.0				2.18
BH05A						52.0					26.0	12.0			3.95	5.39
BH06	4.9	1.7	32.0		20.0	340			130		42.0	55.0	0.21	0.54	13.9	17.3
BH07		1.4	4.4			130					18.0	34.0			3.66	4.04
BH08		2.8	15.0			140			120		25.0	23.0			6.34	6.67
BH09		3.5	19.0			140				33.0	33.0	19.0			6.77	6.77

Table 10-5 : Groundwater Exceedances of DWS Guideline Concentrations

Borehole	Chromium III µg/l	Nickel µg/l	Sulphate µg/l	Boron µg/l	Phenol µg/l	Ammonia mg/l	Benzene µg/l	Aliphatic C12-C16 µg/l	Aliphatic C16-C21 µg/l	Aliphatic C21-C35 µg/l	Aromatic EC8-EC10 µg/l	Aromatic EC10-EC12 µg/l	Aromatic EC12-EC16 µg/l	Anthracene µg/l	Fluoranthene µg/l	Naphthalene µg/l	Total PAH µg/l
DWS Guideline	4.7	20.0	250	300	0.5	0.015	1.0	10.0	10.0	10.0	10.0	10.0	10.0	0.01	0.0063	2.0	0.1
BH01			479			26.0						20.0	20.0			3.71	4.77
BH02						42.0		70.0	30.0			40.0	30.0			3.28	4.15
BH03						110						40.0	50.0			4.29	5.40
BH04A		28.0				25.0	1.5					80.0	60.0				2.18
BH05A						52.0						26.0	12.0			3.95	5.39
BH06	4.9	32.0			20.0	340				130		42.0	55.0	0.21	0.54	13.9	17.3
BH07				330		130	2.5					18.0	34.0			3.66	4.04
BH08				340		140	2.9			120		25.0	23.0			6.34	6.67
BH09				320		140					33.0	33.0	19.0			6.77	6.77

10.10 The groundwater samples analysed were taken from boreholes within the landfill material and are therefore not representative of the groundwater within the White Limestone Formation. Their proximity to the landfill indicates that the concentrations will be higher than that of the water within the aquifer. Therefore, the exceedances shown in the tables are thought to be of acceptable concentrations when considered alongside the attenuation and dispersion that will take place before the water reaches the aquifer.

11. DEVELOPMENT IMPLICATIONS

Roads and Pavements

11.1 Roads and paving are subject to CD622 design and regulations, which are being progressed by BWB separately. Roads and pavements directly over the landfill would not be suitable and would need assessing further.

11.2 No specific CBR testing has been undertaken at this stage of the project. However, roads and pavements are expected to be on a combination of bedrock, weathered bedrock geology and engineered fill material. The road design through the landfill will need particular consideration as the road will be over circa 8m of landfill material. The solution will need to consider waste legislation and potential for mobilising contamination.

11.3 As a guide it is recommended that roads be designed for 5% CBR, which should be confirmed by in-situ testing once detailed designs are available. Interim Advice Note 73/06 (IAN73/06) Revision 1 2009 advises that where the in-situ subgrade has an estimated CBR value less than 2.5% it must be improved. Limestone is typically frost susceptible and so it is likely that a minimum sub base of 450mm will be required to address this.

Drainage

11.4 No drainage or soakaways within the landfill areas will be suitable. Surface run off will need to be controlled to limit infiltration, thus leaching from the landfill.

Excavations

11.5 Any excavations need to consider strong odours within the landfill material, and plan accordingly. Poor stability within the landfill material is also highly likely and needs to be an additional consideration.

11.6 It is recommended that no excavations should be entered without appropriate support and a full risk assessment should be completed prior to entry. Mitigation measures to protect from accumulating ground gases should be implemented.

11.7 Ripping will be required around the edges of the landfill where shallow bedrock is present.

Groundwater

11.8 Groundwater has been found at relatively consistent levels throughout site. The main consideration in relation is to leachate migration and needs to be considered during and post construction.

Chemical Attack on Buried Concrete

11.9 Water soluble sulphate concentrations in soil Water soluble sulphate concentrations in soils varied from 5.2mg/l to 2,140mg/l with soil pH values ranging from 7.1 to 8.4. In accordance with the recommendations of BRE Special Digest 1, 'Concrete in

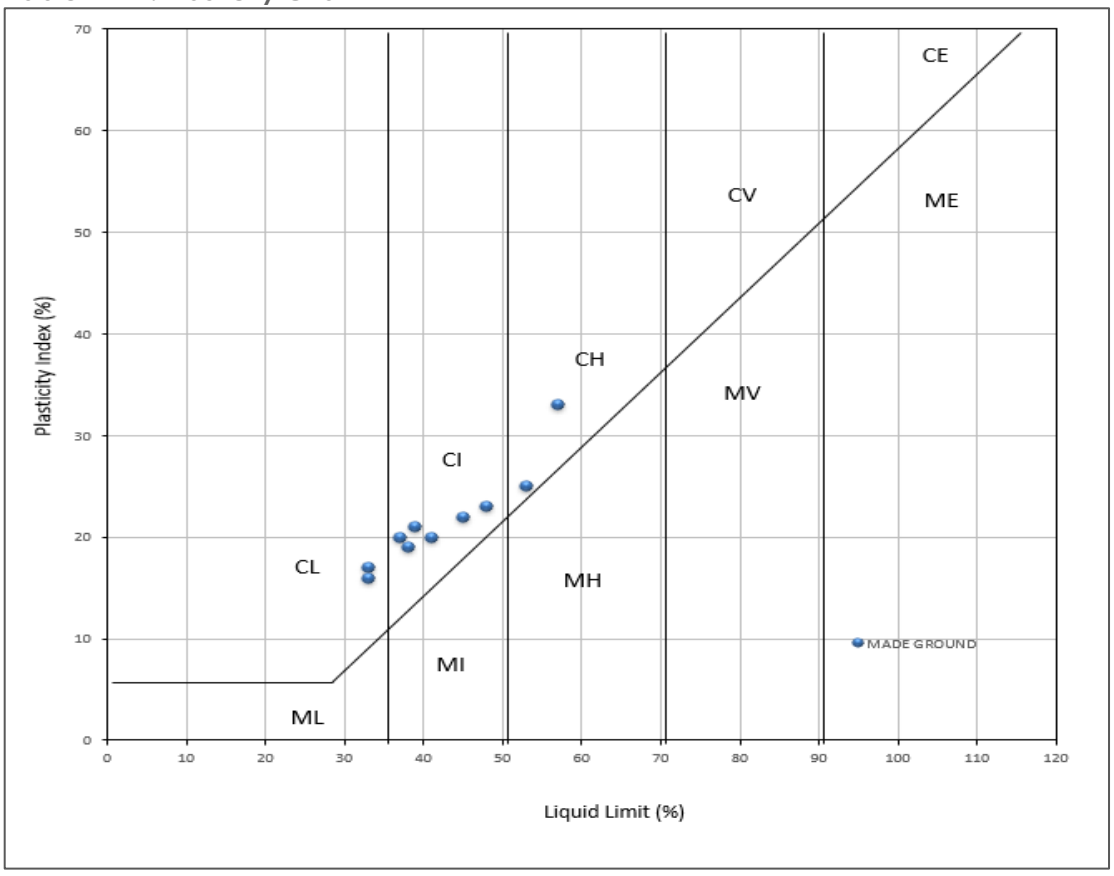
Aggressive Ground' 2005, the conditions of the soils at the site are classified as Design Sulphate Class DS-3.

Earthworks

11.10 Significant earthworks will be required to create the rail port access rail alignment which is expected to be at a level of circa 8.0m below the existing surface level of the landfill.

11.11 The geotechnical laboratory testing has indicated PIs to be in the range 16% (low plasticity) and 33% (high plasticity). A Plasticity Chart is presented below as **Table 11-1**.

Table 11-1 : Plasticity Chart



11.12 Eight PSD tests were undertaken on samples from the Made Ground strata, a summary of the results is provided in **Table 6:2** below.

Table 11-2 : PSD Results Summary

Stratum	Location	Depth (m)	Cobble Content (%)	Gravel Content (%)	Sand Content (%)	Clay/ Silt Content (%)	Earthworks Classification
Brown very gravelly very silty very clayey SAND	BH06	0.20-1.00	0	19	30	51	2A&2B
Greyish brown very gravelly very clayey very sandy SILT	BH07	1.20-1.70	0	20	27	53	2A&2B

Stratum	Location	Depth (m)	Cobble Content (%)	Gravel Content (%)	Sand Content (%)	Clay/ Silt Content (%)	Earthworks Classification
Brownish grey silty clayey sandy GRAVEL with cobbles	DS209	0.50-0.80	15	39	18	28	1C
Brownish grey slightly gravelly sandy very clayey SILT	BH09	0.80	0	7	18	75	2A&2B
Brown clayey sandy GRAVEL with cobbles	BH05	2.00	6	71	12	11	1A
Brown sandy clayey GRAVEL with cobbles	BH05A	1.00	4	46	18	32	1C
Brownish grey gravelly very silty very clayey SAND	BH04A	1.50	0	12	43	55	2A&2B
Brown gravelly very silty very sandy CLAY	BH01	0.60-1.00	0	15	29	56	2A&2B

11.13 Extensive rock excavation will be required to facilitate proposed site levels, where the rail alignment passes through the landfill walls. Ripping will be required to remove rock. The rock excavated should then be processed by crushing and screening to create the desired rock type which could be included as general fill, road subbase material and/or drainage medium particularly where retaining structures may be required.

11.14 The suitability of earthworks materials has been assessed on the basis of the testing carried out as part of this investigation. The materials encountered on site may vary from those analysed; furthermore, inclement weather or winter working may result in materials being unsuitable for incorporation within the works without modification by lime, cement or other methods. In particular, cohesive soils are very susceptible to 'wet weather working' and we strongly recommend that consideration should be given to lime and/or cement stabilisation of these materials if the earthworks are undertaken during inclement weather or the winter period.

11.15 Stockpiled materials often deteriorate due to water infiltration and they may become unsuitable for incorporation in the works; further testing and re-assessment should be made prior to the finalisation and implementation of the earthworks design.

Waste Classification

11.16 Soil samples have been characterised against hazardous waste criteria using Hazwasteonline. The results of the waste classification are presented in **Appendix 10.** Eight samples have also been subjected to full WAC analysis. For the purpose of this assessment, the ground has been separated into the following strata types identified during the ground investigation:

- Topsoil of around 150mm thick;
- Capping layer – typically 1 to 2m thick and composed of gravelly (limestone, brick concrete) clay;

- Waste of low organic content – the covers most of the upper portion of the waste and is generally gravelly clay with various lower portions of waste such as paper, wood, plastics, etc. This typically forms the upper portion of the fill; and
- Waste of high organic content – this material comprises very limited natural soils and has a significant domestic waste composition, most typically, paper, woods, plastics, textiles, less commonly ash, metals and in rare cases localised hydrocarbon impact. These materials were typically deeper and lie directly on the limestone (sometimes weathered).

11.17 In general, the chemical results have not identified much in the way of significantly elevated contaminant concentrations (just one elevated hydrocarbon concentration – see red highlighted DS218A below) and all asbestos IDs have come back negative. In regards to waste classification, other than localised hydrocarbon impact which is hazardous, the results are largely stable non-reactive (non-hazardous) or inert, except where there is significant organic content which increases the classification to hazardous on the basis elevated organic content and loss on ignition. **Table 11-3** summarises the results.

Table 11-3 : Waste Assessment Results Summary

Location	Topsoil Base Depth (m bgl)	Non-Organic Fill Base Depth (m bgl)	Low to Mod Organic / Waste Base Depth (m bgl)	Mod to High Organic / Waste Base Depth (m bgl)	Limestone / Termination Depth (m bgl)
BH01	0.07	1.40	2.00	8.00	8.40
BH02	0.15	0.90	2.80	**6.80**	7.00
BH03	0.10	2.40	7.50	N/A	8.18
BH04	0.30	1.50	N/A	N/A	N/A
BH04A	0.30	2.20	5.00	8.60	8.78
BH05	0.20	1.50	N/A	N/A	2.30
BH05A	0.20	2.10	2.70	9.00	10.45
BH06	0.10	**2.80**	3.50	**8.50**	9.10
BH07	0.10	1.20	1.70	7.20	7.50
BH08	0.20	1.30	5.00	7.00	7.50
BH09	0.20	1.70	**4.0-11.80**	1.7-4.0	11.95
DS201	0.30	1.85	2.55	N/A	N/A
DS202	0.30	2.13	2.20	N/A	N/A
DS203	0.35	1.30	3.20	N/A	N/A
DS204	0.40	1.50	N/A	N/A	N/A
DS205	0.40	1.75	2.40	N/A	N/A
DS206	0.40	1.80	2.30	N/A	N/A
DS207	0.40	1.60	2.60	N/A	N/A
DS208	0.40	2.20	2.60	N/A	N/A
DS209	0.30	1.20	5.20	N/A	N/A

Location	Topsoil Base Depth (m bgl)	Non-Organic Fill Base Depth (m bgl)	Low to Mod Organic / Waste Base Depth (m bgl)	Mod to High Organic / Waste Base Depth (m bgl)	Limestone / Termination Depth (m bgl)
DS210	0.15	1.30	N/A	N/A	**1.70**
DS211	0.20	2.20	N/A	N/A	N/A
DS212	0.10	2.10	2.40	N/A	N/A
DS213	**0.46**	1.75	2.35	N/A	N/A
DS214	0.25	1.75	2.50	N/A	N/A
DS215	0.10	1.60	2.00	N/A	N/A
DS216	0.10	1.60	2.80	N/A	N/A
DS217	0.15	1.75	**3.50**	N/A	N/A
DS218	0.15	2.40	N/A	N/A	N/A
DS218A	0.15	1.80	N/A	**5.60**	N/A
DS219	0.15	1.90	2.20	N/A	N/A
DS219A	0.10	1.75	2.60	N/A	N/A

= Non-Hazardous Soil Chemical Waste Classification (either Inert or Stable Non-Reactive)

= Hazardous Soil Chemical Waste Classification

3.00 Text Formatting = Inert WAC Result

3.00 Text Formatting =Stable Non-Reactive Hazardous waste WAC Result

3.00 Text Formatting = Hazardous WAC Result

11.18 This indicates that there will need to be some sorting to separate the highly organic material, which will be hazardous (due to organic content and loss on ignition), from lower organic layers, which are largely indicated to be inert. The average thickness of the deeper organic layer is around 4.0m and based on the samples recovered from this layer the estimation is around 50% of this layer would be hazardous. Only soils that have had full WAC analysis (bold text) have loss on ignition and total organic content testing, so further samples which are have high organic content would be expected to be classified as hazardous.

11.19 The waste classification assessment only applies to those soils that have been tested. If other soils are to be disposed of off-site then further analysis may be required.

11.20 Asbestos has not been found at the site, although localised asbestos should not be ruled out. The presence of visible asbestos containing materials in waste or at concentrations exceeding 0.1% by weight will classify the waste as mixed and require disposal as hazardous waste irrespective of the chemical properties of the waste.

11.21 Should any soils require disposal off site an assessment of waste classification of the soils for disposal should be made by a competent person. Further chemical analysis may be required to fully characterise waste soils for disposal to landfill or re-use off site. WAC analysis may be required for disposal of soils as inert or hazardous.

Waste and Materials Management

11.22 Preliminary volumes of landfill waste that will need to be excavated (indicated on **Drawing 2**) to facilitate the proposed road and rail alignment has been undertaken with a total volume of 68,000m^3 of landfill area needing to be removed. This volume is made up of the following materials:

- Topsoil 2,000 (3%)
- Mineral Cap 12,000 (18%)
- Waste 54,000 (79%)

11.23 As the site is a former permitted landfill, any materials reuse will need to be agreed with the EA. However, at this stage the following destination options for the materials have been considered:

- Topsoil - Re use over capped waste or potentially elsewhere.
- Mineral Cap - Utilised in engineering, typically as regulating layer and/ or soils or protection above cap. May need an Environmental Permit.
- Waste - Likely to need to be disposed of to a permitted facility. Any reuse would have to demonstrate its to replace new material being bought onto site, be agreed up front with the EA, and be done under an Environmental Permit.

12. ENVIRONMENTAL RISK ASSESSMENT

Introduction

12.1 An updated Source, Pathway, Receptor analysis has been undertaken for the site based on the information provided in the preceding sections. This is presented as **Table 12-1** and further information about the risk classification scheme is included within **Appendix 11**.

Table 12-1 : Revised Conceptual Site Model

Source	Pathway	Receptor	Con	Prob	Risk	Mitigation/Investigation
S1: On site: Made Ground – Potential contaminants may include complex cyanide, benzo(a)pyrene and other PAH compounds, ammonium, arsenic, zinc, boron, copper, sulphate, asbestos and hazardous ground gases (carbon dioxide/methane).	**P1:** Direct contact, incidental ingestion and inhalation of particulates.	**R1**: Construction/ services personnel	Md	Ul	L	No contaminants were recorded above the GSAC concentrations. Small pockets of contamination may be present as landfill could contain localised contamination that was not found through the spread of exploratory holes. The exposure to construction workers/services personnel can be mitigated by utilising appropriate PPE and maintaining good hygiene levels.
		R2: Future site users (public open space)	Md	Ul	L	No contaminants were recorded above the GSAC concentrations. Small pockets of contamination may be present as landfill could contain localised contamination that was not found through the spread of exploratory holes.
	P2: Vertical migration of contaminants in the soil leachate.	**R3:** Underlying Principal Aquifer (White Limestone Formation)	Mi	Lw	L	The remediation design of any significant alterations to the landfill needs to include management of the leachate to limit infiltration so that contamination does not reach the groundwater.
	P3: Lateral migration of contaminated groundwater.	**R4:** The River Cherwell (approximately 3km west of the site)	Mr	Ul	VL	Given the concentrations recorded and groundwater flow towards the east, this linkage is of little significance.

Source	Pathway	Receptor	Con	Prob	Risk	Mitigation/Investigation
	P4: Direct contact.	**R5:** Water utility pipes	Mr	Ul	VL	No water utility pipes are anticipated in the landfill. Utility pipes within the road would be placed within clean stone / fill.
		R6: Buried structures/ foundations.	Md	Ul	M/L	Sulphates and low pH in the ground could accelerate the degradation of buried concrete structures (e.g. foundations). A sulphate assessment was undertaken to give the concrete design class of DS3 - AC3.
	P5: Migration and accumulation of ground gasses in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	**R2**: Future site users	Mr	Ul	VL	Gas assessment has been carried out according to CIRIA guidance. Although the recorded gas levels were high, no buildings or enclosed spaces are expected within the proposed development and so the gas sensitivity is low. Gas controls will need to be amended and a gas control strategy developed and approved by the Environment Agency.
S2: On site VOC vapours	**P6**: Migration into buildings through foundation cracks, service entry points	**R2:** Future site users	Mr	Ul	VL	No significantly elevated volatile contamination was found that could present a vapour risk. In addition, no buildings with internal areas are proposed, so there would be no accumulation of volatile contamination.

VH = Very High, H = High, M = Moderate, M/L = Moderate/Low, L = Low, VL = Very Low

KEY: Sv = Severe, Md = Medium, Mi = Mild, Mr = Minor Hi = High, Li = Likely, Lw = Low Likelihood, Ul = Unlikely

Pollutant Linkage Assessment Summary

When considered in the context of the conceptual site model and the historical landfill activity, the proposed development is considered to pose a LOW risk to human health. No significant contaminants were identified and the proposed development is considered of low sensitivity for human health risk.

The risk posed to controlled waters is predominantly considered to be MODERATE/LOW. It is considered that the main driver for the risk rating for human health is the infiltration of water into the soil creating leachate, which could reach the Principle aquifer in the underlying bedrock.

13. CONCLUSION AND RECOMMENDATIONS

Conclusions

13.1 Development proposals are to develop a new road (Ardley Bypass) at grade through the north western area of the site, with a new rail line through the northern area at a level of circa 8.0m below existing surface levels. The site is a former quarry and historical licenced landfill site accepting domestic waste in the 1980s, and still has a leachate and landfill gas management system in place.

13.2 The ground investigation undertaken identified the following geological sequence at the site:

- Topsoil
- Capping layer – typically 1 to 2m thick and composed of gravelly (limestone, brick concrete) clay.
- Waste of low organic content – the covers most of the upper portion of the waste, typically around 2m thick, and is generally gravelly clay with various lower portions of waste such as paper, wood, plastics, etc. This typically forms the upper portion of the fill.
- Waste of high organic content – this material comprises very limited natural soils and has a significant domestic waste composition, most typically, paper, woods, plastics, textiles, less commonly ash, metals and in rare cases localised hydrocarbon impact. These material were typically deeper and lie directly on the limestone (sometimes weathered).
- Limestone of the White Limestone Formation (from between 7.0 and 11.8m bgl).

13.3 High levels of hazardous ground gases (carbon dioxide and methane) have been recorded across the site. As no proposed structures are proposed the risk is limited although the development will need to considered the existing gas management system and how this needs to be adapted / altered for the proposed development.

13.4 In general, the soil chemical results have not identified significantly elevated contaminant concentrations with the exception of two elevated hydrocarbon concentrations at DS218A (4,100mg/kg) at 5.3m bgl, and at BH08 (3,700mg/kg) at 4.4-4.5m bgl. All asbestos IDs have come back negative. Slightly elevated ammonia, heavy metal, PAHs and trace VOCs were identified in the leachate of the landfill. The data has inferred that the leachate flows in an easterly direction. Based on the concentrations recorded and considering attenuation and dispersion. The concentrations currently present a limited risk to controlled waters.

13.5 Regarding waste classification, localised hydrocarbon impact has been classified as hazardous, but otherwise the results are largely stable non-reactive hazardous waste or inert, except where there is significant organic content which increases the classification to hazardous on the basis elevated organic content and loss on ignition.

13.6 When considered in the context of the conceptual site model and the historical landfill activity, the proposed development is considered to pose a LOW risk to human health. No significant contaminants were identified, and the proposed development is considered of low sensitivity for human health risk.

13.7 The risk posed to controlled waters is predominantly considered to be MODERATE/LOW. It is considered that the main driver for the risk rating for controlled waters is the infiltration of water into the soil creating leachate, which could reach the Principle Aquifer in the underlying bedrock. The development will need to be engineered in order to manage infiltrations and leachate.

Recommendations

13.8 The exposure to construction workers/services personnel can be mitigated by utilising appropriate PPE and maintaining good hygiene levels. The management of odours will need particularly consideration and an odour management plan prepared and implemented.

13.9 The proposed development will require significant removal / reengineering or existing soils, which will need to be done in accordance with a CQA Plan, which will need to be approved by EA before implementation. The management / reuse of soils will also need to be agreed with the EA in consideration of the existing permit. The design will also need to consider:

- Management of the leachate to limit infiltration so that contamination does not reach the groundwater.
- Landfill gas management.

13.10 In accordance with the recommendations of BRE Special Digest 1, 'Concrete in Aggressive Ground' 2005, the conditions of the soils at the site are classified as Design Sulphate Class AC3 DS-3.

14. REFERENCES

1. British Standards Institution, (BSI), BS 8485:2015+A1:2019, Code of Practice for the characterization and remediation from ground gas in affected developments

2. British Standards Institution, (BSI), BS 8576:2013, Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOCs)

3. British Standards Institution, (BSI), BS 10175:2011+A2:2017, Investigation of Contaminated Sites – Code of Practice

4. British Standards Institution, (BSI), BS5930:2015+A1:2020 Code of practice for ground investigations

5. British Standards Institution, (BSI), BS EN 1997-1:2004+A1:2013, Incorporating corrigendum February 2009, Eurocode 7 – Geotechnical Design – Part 1: General rules.

6. British Standards Institution, (BSI), BS EN 1997-2:2007 Incorporating corrigendum June 2010, Eurocode 7 – Geotechnical Design – Part 2: Ground Investigation and testing.

7. Building Research Establishment Special Digest 1 *Third Edition*. Concrete in Aggressive Ground (2005)

8. Building Research Establishment (BRE) BR211, Radon; Guidance on Protective Measures for New Buildings (2015)

9. Construction Industry Research and Information Association (CIRIA), Report 132, A Guide to Safe working on Contaminated Sites (1996).

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11. Construction Industry Research and Information Association (CIRIA). 2007, Report C665, Assessing Risk Posed by on Hazardous Ground Gases to Buildings

12. Department for Communities and Local Government (DCLG), 2012, National Planning Policy Framework.

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14. Environment Agency report Land Contamination Risk Management, 2020.

15. Environment Agency 2008, Updated technical background to the CLEA model Science Report – SC050021/SR3

16. Environment Agency 2008, Human health toxicological assessment of contaminants in soil Science Report – SC050021/SR2

17. Environment Agency 2009, CLEA Software (Version 1.05) Handbook Better Regulation Science Programme Science report: SC050021/SR4

18. Environment Agency 2008, A review of body weight and height data used within the Contaminated Land Exposure Assessment model (CLEA) Project SC050021/ Technical Review 1

19. Environment Agency, 2006, Remedial Targets Methodology, Hydrogeological Risk Assessment for Land Contamination

20. Health and Safety Executive (HSE) 'Protection of workers and the general public during the Development of Contaminated Land (1991).

21. NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66: 2008.

DRAWINGS

Drawing 1: Masterplan

NOTES
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Inset Plan 1:5000 @ A0

N

Cherwell Valley Services

Ardley Road

Somerton Road

Ardley

Ardley Wood

Railway Line

Upper Heyford Airfield (disused)

Intermodal Rail Terminal

M40

Heyford Park

Chilgrove Drive

Camp Road

Duvall Park Homes

Existing Reservoir (underground)

Viridor Ardley Energy Recovery Facility

Birch Spinney

Manor Farm

B430

0 100 200 300 400m

KEY

- Existing trees/woodlands (Indicative)
- Existing hedgerows/other planting (Indicative)
- Grassland/open space (existing and proposed)
- Existing ponds/water features (including offsite)
- Proposed Footways/Redirected PROW and/or cycleways (off-road routes)
- Existing Public Rights of Way
- Proposed woodland/structural planting/scrub
- Proposed ponds/wetlands/drainage features
- Proposed individual/hedgerow trees/small tree groups

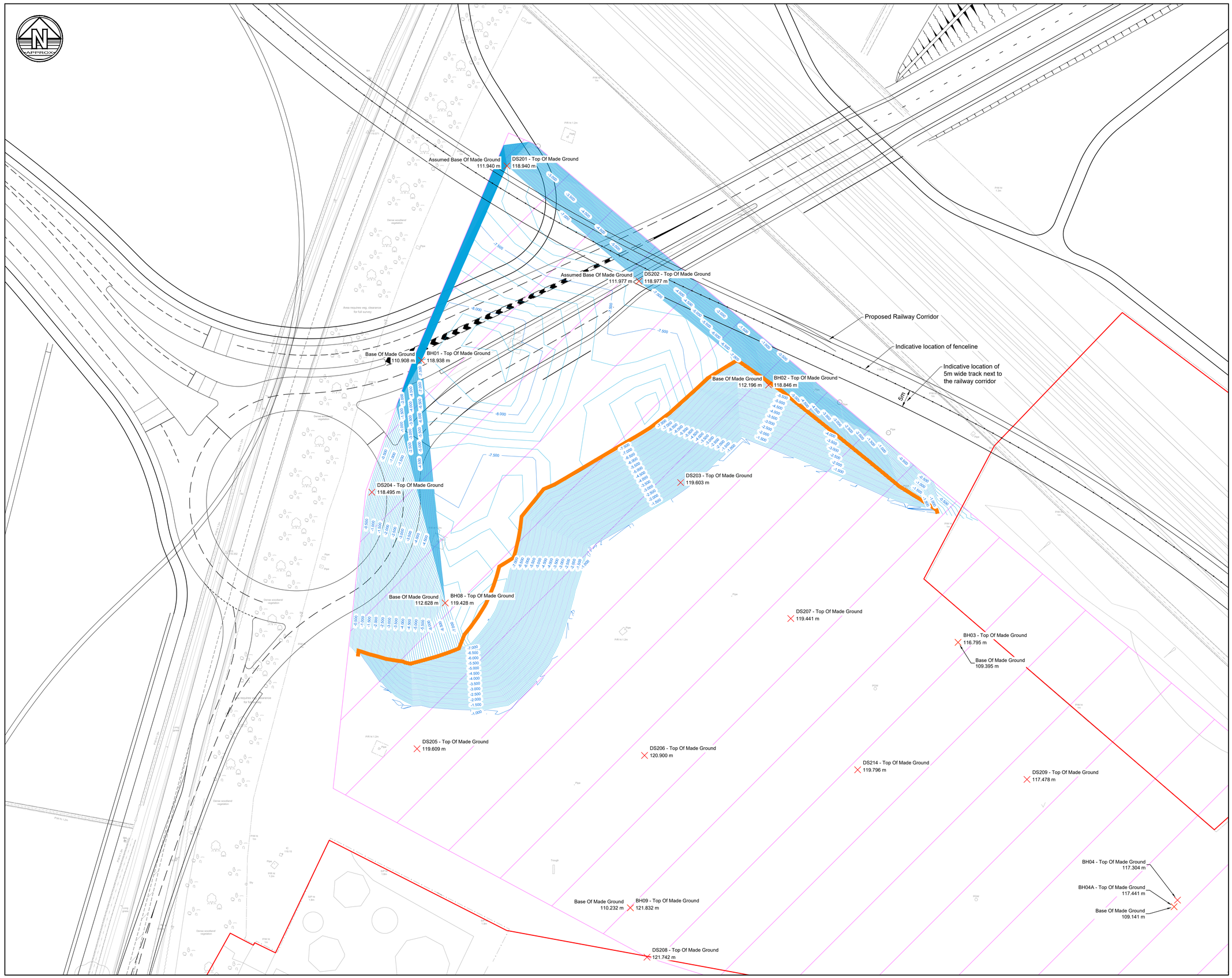
Oxfordshire Railfreight Ltd
Oxfordshire Strategic Rail Freight Interchange
Oxfordshire

ILLUSTRATIVE MASTERPLAN (DRAFT)

DRAFT 1:5000@ A0
3rd May 2022 CEP / TMJ
8308-L-23 rev K

File: K:\8300\8308\LANDS\PLANS\8308-L-23 ILLUSTRATIVE LANDSCAPE MASTERPLAN.vwx

Drawing 2: Development Proposals & Waste Isopachytes



Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in metres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.

Legend

- Cut Major Contour Cut 0.5m Interval
- Cut Minor Contour Cut 0.1m Interval
- Draft Order Limits
- New Extent of Landfill
- Made Ground Location (Landfill)

Isopachyte contours show the depth of cut between the existing ground level and the extent of excavation for the removal of the landfill. The extent of excavation is taken to be either:
1. The full known depth of the landfill (where this is located directly beneath the main works of highway and railway corridors), or
2. A 1m deep strip of the landfill (where this is located beneath the finished level of the embankments of the respective corridors).

Approximate volume of landfill to be removed based on the borehole information is: 68,000m^3

Note: Borehole level information is shown on the drawing.

Rev	Date	Details of issue / revision	Drw	Rev
P01	22.02.23	Issue for Information	MN	SRH

Issues & Revisions

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Client

OXFORDSHIRE RAILFREIGHT LTD

Project Title

OxSRFI OXFORDSHIRE STRATEGIC RAIL FREIGHT INTERCHANGE

Drawing Title

LANDFILL EXCAVATION - ISOPACHYTE CONTOURS

Drawn:	M.Ntantanou	Reviewed:	S.Hilditch		
BWB Ref:	NTH 2479	Date:	22.02.23	Scale@A1:	1:500

Drawing Status

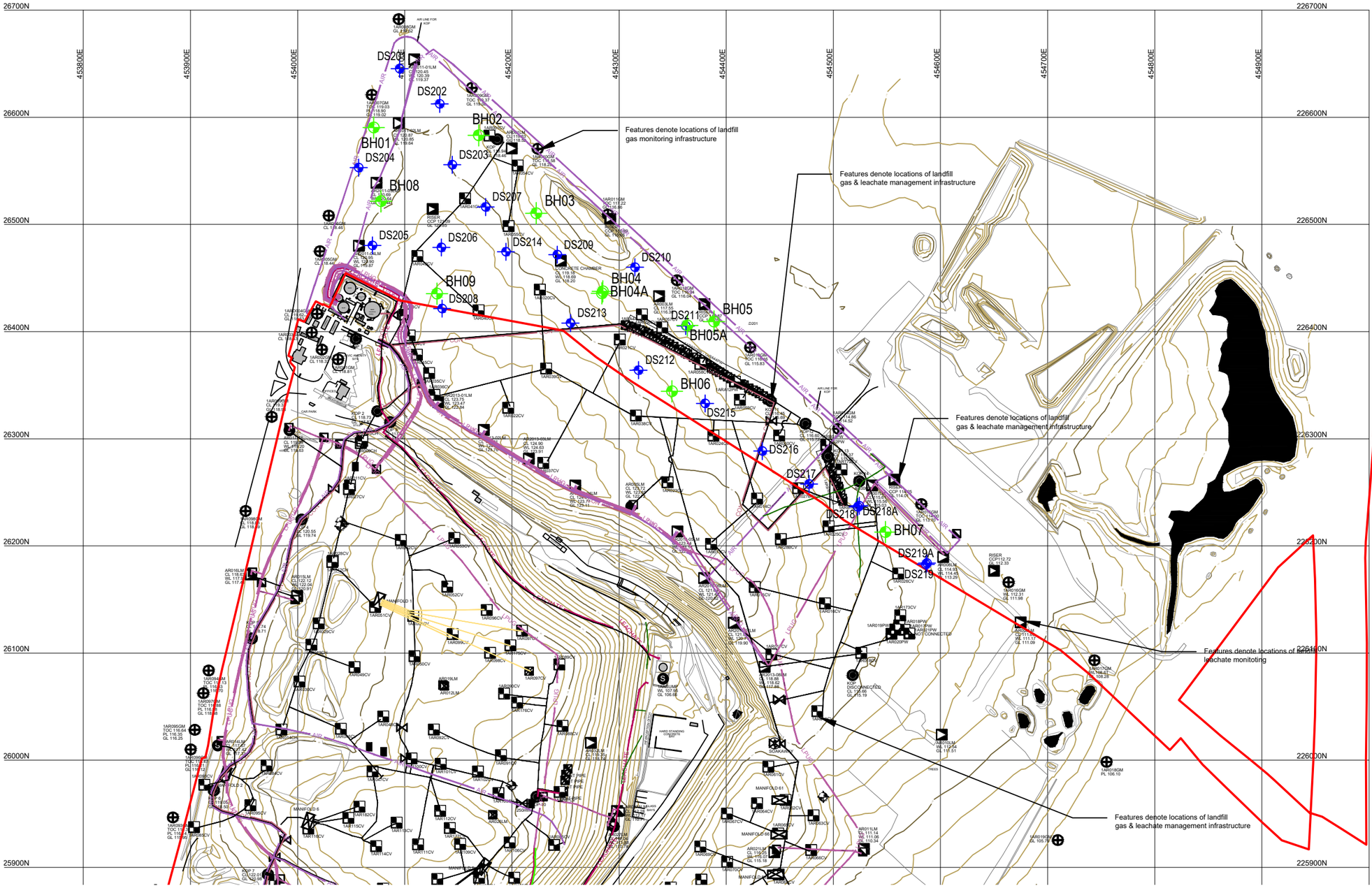
FOR INFORMATION

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
OxSRFI-BWB-GEN-XX-SK-CH-SK062	S2	P01

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Drawing 3: Exploratory Hole Location Plan



Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.

Key Plan

Legend

DS** BWB Dynamic Sample Location

BH** BWB Cable Percussive Borehole Location

Rev	Date	Details of issue / revision	Drw	Rev
P1	01.01.00	PRELIMINARY ISSUE	AJ	JB

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Client

Oxfordshire Railfreight Ltd

Project Title

Ardley SRFI

Drawing Title

Ardley Landfill Exploratory Hole Location Plan

Drawn:	R. Robinson	Reviewed:	M. Marteddu		
BWB Ref:	NTH2479	Date:	09.01.23	Scale@A3:	1:4,000

Drawing Status

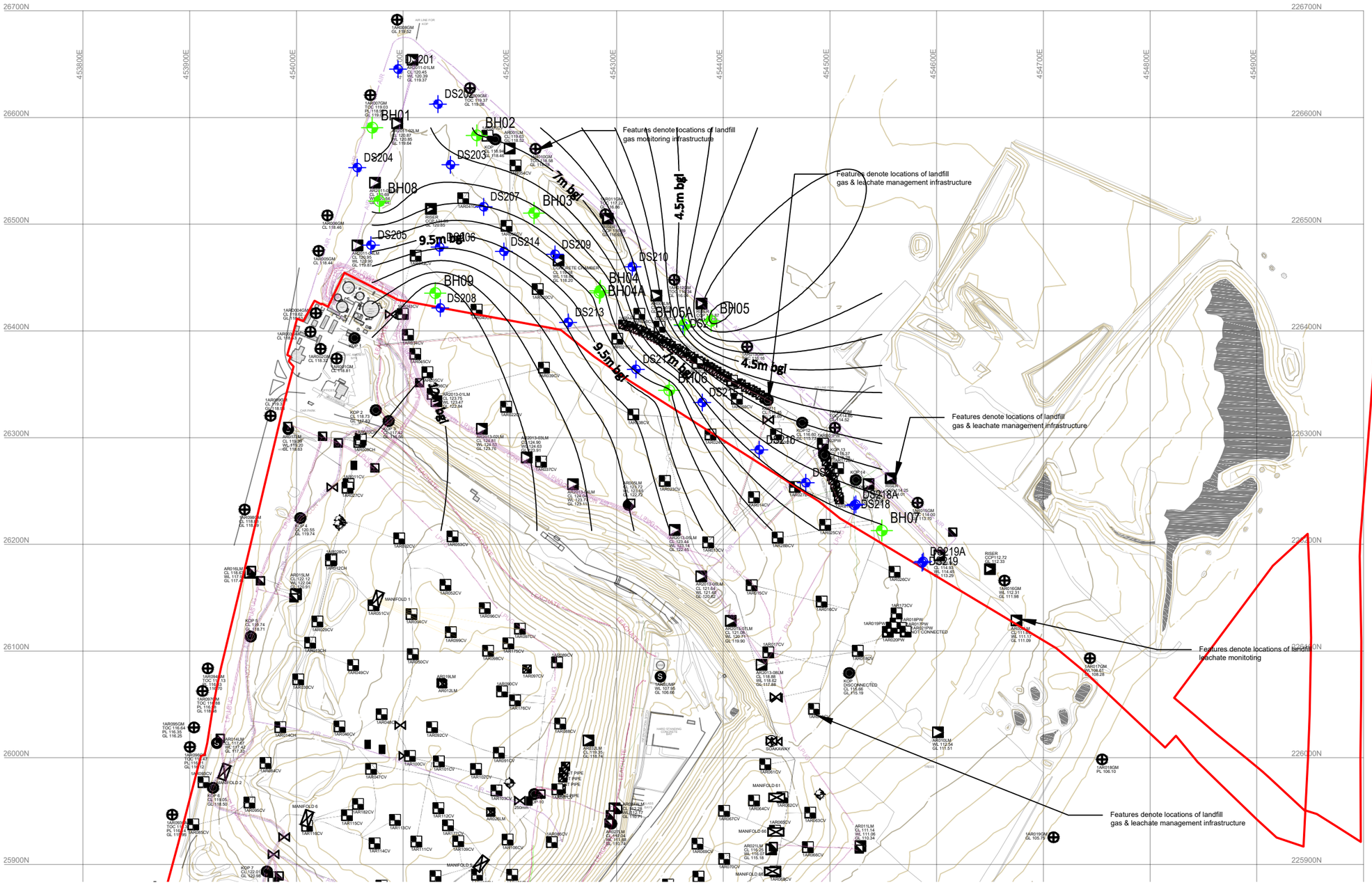
Final

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
ORFI-BWB-ZZ-XX-DR-GE-1001	**S0**	**P07**

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Drawing 4: Inferred Made Ground Thicknesses



Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.

Key Plan

Legend

DS** BWB Dynamic Sample Location

BH** BWB Cable Percussive Borehole Location

Rev	Date	Details of issue / revision	Drw	Rev
P1	01.01.00	PRELIMINARY ISSUE	AJ	JB

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Client
Oxfordshire Railfreight Ltd

Project Title
Ardley SRFI

Drawing Title
Inferred Made Ground Thicknesses

Drawn:	R. Robinson	Reviewed:	M. Marteddu		
BWB Ref:	NTH2479	Date:	25.02.23	Scale@A3:	1:4,000

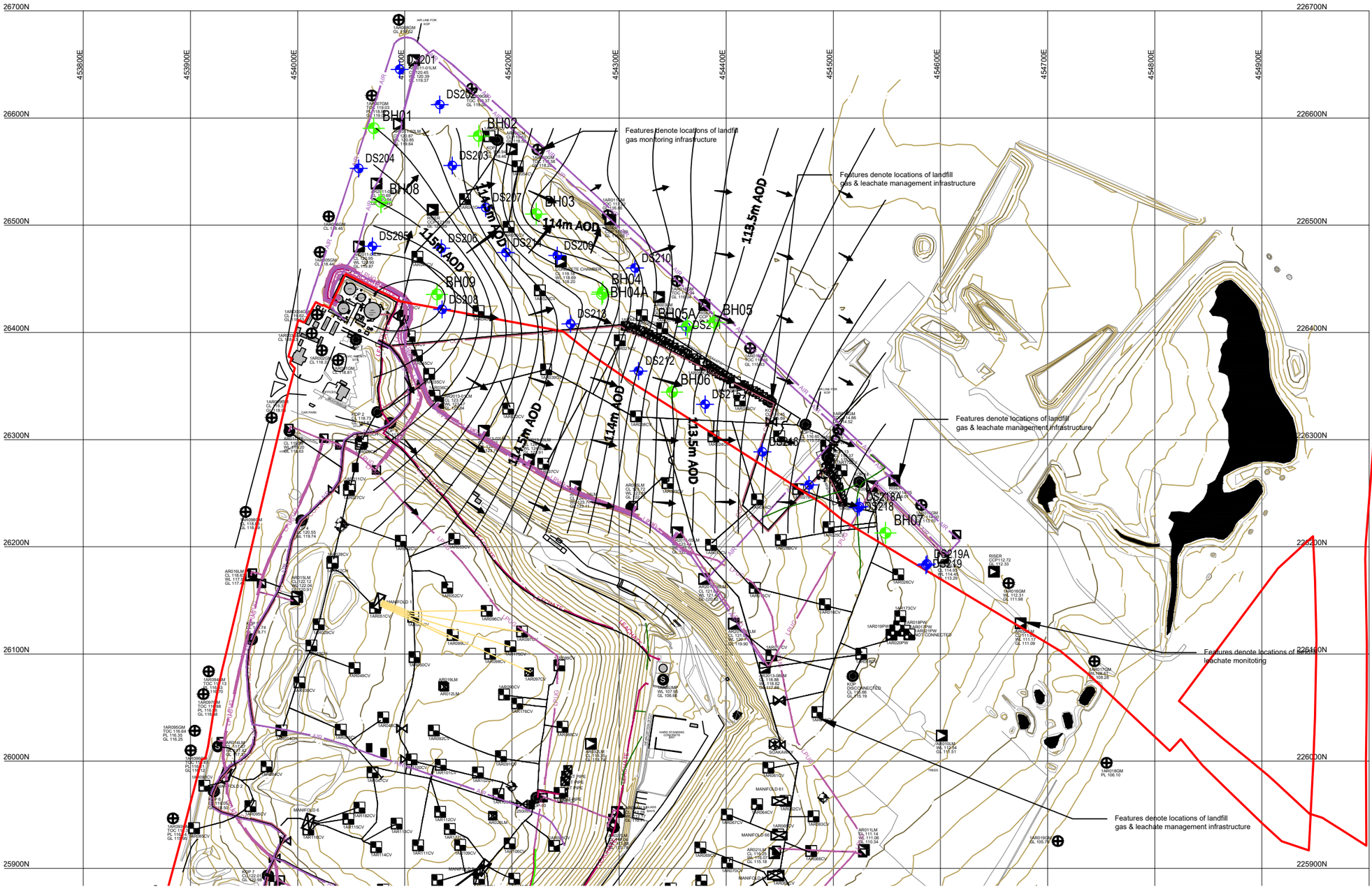
Drawing Status
Final

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
ORFI-BWB-ZZ-XX-DR-GE-1001	S2	P01

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Drawing 5: Inferred Leachate Flow Profile



Notes

1. Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
2. This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
3. All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
4. Any discrepancies noted on site are to be reported to the engineer immediately.

Key Plan

Legend

DS** BWB Dynamic Sample Location

BH** BWB Cable Percussive Borehole Location

Rev	Date	Details of issue / revision	Drw	Rev
P1	01.01.00	PRELIMINARY ISSUE	AJ	JB

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Client

Oxfordshire Railfreight Ltd

Project Title

Ardley SRFI

Drawing Title

Ardley Landfill Inferred Leachate Flow Profile

Drawn:	R. Robinson	Reviewed:	M. Marteddu
BWB Ref:	NTH2479	Date:	20.02.23
Scale@A3:	1:4,000		

Drawing Status

Final

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
ORFI-BWB-ZZ-XX-DR-GE-1001	S2	P01

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APPENDICES

Appendix 1 : Exploratory Hole Logs

BOREHOLE LOG

Scale 1:20 Sheet 1 of 3

LOCATION ID					
BH01	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	119.03
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454071.04
	Client: Oxfordshire RFI			**Northings:**	226590.27
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	01/12/2022 - 03/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.07]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)		0.07	B1	0.10	0.30				
		118.96 [0.53]				ES1	0.10					
			Soft to firm brown and grey mottled slightly gravelly silty CLAY with a low cobble content of angular limestone and occasional rootlets. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)			D1	0.50	0.60				
		118.43 [0.80]			0.60							
			Soft to firm friable reddish brown slightly gravelly sandy silty CLAY. Gravel is subangular to rounded fine to coarse brick, flint and limestone. (Made Ground)			B2	0.70	1.00				
						D2	0.80	0.90				
						ES2	0.90	1.00				
									SPT	1.20	N=4 (1,1/1,1,1,1)	0.00m (NR)
		117.63 [0.60]			1.40							
			Soft to firm grey mottled brown slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional decomposed wood and plastic bags. (Made Ground)			B3	1.50	1.60				
						D3	1.50	1.80				
						ES3	1.80	1.90				
		117.03 [1.00]			2.00				SPT	2.00	N=5 (1,1/1,1,2,1)	1.50m (NR)
			Soft to firm dark grey mottled brown slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash and hydrocarbon odour. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional decomposed wood and plastic bags. (Made Ground)			B4	2.50	3.00				
						D4	2.70	2.80				
		116.03 [2.00]			3.00	D5	3.00	3.45	SPT	3.00	N=4 (1,1/1,1,1,1)	1.50m (NR)
			Paper, wood, carpets and plastic bags with occasional glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)			B5	3.50	4.00				
						ES4	3.80	3.90				

Chiseling

From (m bgl)	To (m bgl)	Time (hh:mm)
8.20	8.30	01:00
8.30	8.40	01:00

Water Added

From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Medium flow at 6.30m, rose to 6.20 after 5min, 6.00m after 10min, 5.80m after 15min and 5.70m after 20min.

Other Remarks:

1. Olfactory evidence of hydrocarbon detected between 2.0-3.00m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. High SPT values at 4.00m depth due to presence of cobbles.

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BOREHOLE LOG

LOCATION ID					
BH01	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	119.03
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454071.04
	Client: Oxfordshire RFI			**Northings:**	226590.27
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	01/12/2022 - 03/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, carpets and plastic bags with occasional glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)						SPT	4.00	N=40 (5,6/20,11,5,4)	1.50m (NR)
			4.00-5.00m: Angular to subangular cobbles of limestone.									
		114.03 [3.10]	Paper, wood, clothes, carpets and plastic bag fragments with occasional glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)		5.00				SPT	5.00	N=15 (2,3/4,4,3,4)	5.00m (4.00m bgl)
						B6	6.00	6.50				
						ES5	6.50	6.60	SPT	6.50	N=20 (4,6/6,4,5,5)	6.00m (6.00m bgl)

Chiseling

From (m bgl)	To (m bgl)	Time (hh:mm)
8.20	8.30	01:00
8.30	8.40	01:00

Water Added

From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Medium flow at 6.30m, rose to 6.20 after 5min, 6.00m after 10min, 5.80m after 15min and 5.70m after 20min.

Other Remarks:

1. Olfactory evidence of hydrocarbon detected between 2.0-3.00m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. High SPT values at 4.00m depth due to presence of cobbles.

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BOREHOLE LOG

Scale 1:20 Sheet 3 of 3

LOCATION ID					
BH01	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	119.03	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454071.04	
	Client:	Oxfordshire RFI	**Northings:**	226590.27	
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:** 01/12/2022 - 03/12/2022	**Engineer:** MM	**Checker:** RR	

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, clothes, carpets and plastic bag fragments with occasional glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)						SPT	8.00	N=50 (3,3/50 for 250mm)	8.00m (NR)
		110.93 [0.20]	Firm thinly laminated grey slightly sandy CLAY. (White Limestone Formation)		8.10	D8	8.20	8.30				
						ES5	8.20					
		110.73 [0.10]	Yellowish brown and grey LIMESTONE recovered as cobble and sandy silty gravel. (White Limestone Formation)		8.30				SPT	8.30	50 (25 for 20mm/50 for 23mm)	8.00m (NR)
		110.63	Hole Terminated at 8.40m bgl.		8.40	D9	8.40	8.40				

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
8.20	8.30	01:00
8.30	8.40	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Medium flow at 6.30m, rose to 6.20 after 5min, 6.00m after 10min, 5.80m after 15min and 5.70m after 20min.

Other Remarks:

1. Olfactory evidence of hydrocarbon detected between 2.0-3.00m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. High SPT values at 4.00m depth due to presence of cobbles.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 2

LOCATION ID					
BH02	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.96
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454169.22
	Client: Oxfordshire RFI			**Northings:**	226583.30
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	07/12/2022 - 08/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.15]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets.									
		118.81 [0.40]	(Topsoil)		0.15	B1	0.20	0.50				
			Firm brown slightly gravelly silty CLAY with a low cobble content of angular limestone and occasional rootlets. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)			D1	0.30	0.40				
						D1	0.30					
						ES1	0.40	0.50				
		118.41 [0.35]	Firm brown and grey mottled slightly gravelly silty CLAY with a low cobble content of angular limestone and occasional rootlets. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)		0.55							
		118.06 [1.90]	Soft to firm grey mottled brown slightly gravelly sandy CLAY with a low cobble content of concrete, occasional pockets of black organic clay and grey ash with slight hydrocarbon odour. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional decomposed wood and plastic bags. (Made Ground)		0.90	B2	1.00	1.50				
						ES2	1.40	1.50				
									SPT	2.00	N=14 (1,2/2,4,4,4)	2.00m (NR)
						B3	2.50	3.00				
		116.16 [4.00]	Paper, wood, clothes, carpets and plastic bags with occasional glass and rubber fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)		2.80	D2	3.00	3.10	SPT	3.00	N=17 (2,3/3,4,5,5)	2.00m (NR)
						ES3	3.40	3.50				

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
0.90	1.40	01:00
6.80	7.00	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)
2.00	7.50	

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Medium flow at 3.00m, sealed at 4.00m. Rose to 2.60 after 5min, 2.45m after 10min, stable at 2.45m after 20min. Low flow at 5.90m, sealed at 6.50m. Rose to 5.80 after 5min, 5.70m after 10min, stable at 5.70m after 20min.

Other Remarks:

1. Slight olfactory evidence of hydrocarbon detected between 0.90-2.80m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. High SPT values at 4.00m depth due to presence of cobbles.

BOREHOLE LOG

LOCATION ID					
BH02	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.96
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454169.22
	Client: Oxfordshire RFI			**Northings:**	226583.30
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	07/12/2022 - 08/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, clothes, carpets and plastic bags with occasional glass and rubber fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)			B4	4.00	4.50	SPT	4.00	N=11 (2,3/3,3,2,3)	4.00m (3.50m bgl)
									SPT	5.00	N=15 (2,3/4,4,3,4)	4.50m (NR)
									SPT	6.50	N=50 (5,4/50 for 241mm)	6.00m (NR)
		112.16 [0.20]	Yellowish brown and grey LIMESTONE recovered as cobble and sandy silty gravel. (White Limestone Formation)		6.80	D3	6.90	7.00	SPT	6.90	50 (25 for 55mm/50 for 44mm)	6.80m (NR)
		111.96	Hole Terminated at 7.00m bgl.		7.00							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
0.90	1.40	01:00
6.80	7.00	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)
2.00	7.50	

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Medium flow at 3.00m, sealed at 4.00m. Rose to 2.60 after 5min, 2.45m after 10min, stable at 2.45m after 20min. Low flow at 5.90m, sealed at 6.50m. Rose to 5.80 after 5min, 5.70m after 10min, stable at 5.70m after 20min.

Other Remarks:

1. Slight olfactory evidence of hydrocarbon detected between 0.90-2.80m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. High SPT values at 4.00m depth due to presence of cobbles.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 3

LOCATION ID	Project Name:	Oxfordshire RFI	Ground Level (m AOD):	116.81
BH03	Project Number:	NTH2479 (Ardley Landfill)	Eastings:	454222.82
	Client:	Oxfordshire RFI	Northings:	226510.51
Hole Type: CP	Rig: Dando 3000	Start & End Date: 16/12/2022 - 17/12/2022	Engineer: MM	Checker: RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)		0.10							
		116.71 [0.20]	Soft to firm brown slightly gravelly silty CLAY with a low cobble content of angular limestone and occasional rootlets. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)		0.30							
		116.51 [2.10]	Firm brown mottled orangish brown and grey slightly gravelly silty CLAY with occasional rootlets. Gravel is subangular to rounded fine to coarse flint, brick and limestone. (Made Ground)			1	1.20	1.65	SPT	1.20	N=18 (2,4/4,4,5,5)	1.00m (NR)
						2	2.00	2.45	SPT	2.00	N=9 (3,3/3,3,2,1)	2.00m (NR)
		114.41 [0.60]	Soft to firm grey mottled brown slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash with slight hydrocarbon odour. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional glass, paper, clothes and plastic bags. (Made Ground)		2.40							
		113.81 [4.50]	Paper, clothes, carpets and plastic bags with occasional glass and fragments and brown and some black organic sandy clay, with moderate organic odour. (Made Ground)		3.00	3	3.00	3.45	SPT	3.00	N=15 (3,2/2,2,8,3)	3.00m (NR)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
7.50	7.80	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Moderate flow at 5.00m. Rose to 4.30 after 5min, 4.20m after 10min, 4.20m after 15min and 4.10m after 20min.

Other Remarks:

1. Grey ash and slight olfactory evidence of hydrocarbon between 2.40-3.00m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover

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BOREHOLE LOG

LOCATION ID					
BH03	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	116.81
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454222.82
	Client: Oxfordshire RFI			**Northings:**	226510.51
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	16/12/2022 - 17/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, clothes, carpets and plastic bags with occasional glass and fragments and brown and some black organic sandy clay, with moderate organic odour. (Made Ground)			4	4.00	4.45	SPT	4.00	N=23 (4,2/9,11,1,2)	4.00m (NR)
			Below 4.00m: With rebar fragment, occasional decomposed wood.			5	5.00	5.45	SPT	5.00	N=8 (3,3/2,2,2,2)	5.00m (4.30m bgl)
						6	6.50	6.95	SPT	6.50	N=16 (2,5/4,2,5,5)	6.50m (5.80m bgl)
		109.31 [0.30]	Firm greenish grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is angular to subangular fine to medium limestone. (White Limestone Formation)		7.50							
		109.01 [0.38]			7.80	7	7.80	8.18	SPT	7.80	N=50 (6,7/50 for 225mm)	7.50m (7.00m bgl)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
7.50	7.80	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Moderate flow at 5.00m. Rose to 4.30 after 5min, 4.20m after 10min, 4.20m after 15min and 4.10m after 20min.

Other Remarks:

1. Grey ash and slight olfactory evidence of hydrocarbon between 2.40-3.00m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover

BOREHOLE LOG

Scale 1:20 Sheet 3 of 3

LOCATION ID					
BH03	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	116.81
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454222.82
	Client: Oxfordshire RFI			**Northings:**	226510.51
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	16/12/2022 - 17/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Yellowish brown and grey LIMESTONE recovered as cobble and sandy silty gravel. (White Limestone Formation)									
		108.63	Hole Terminated at 8.18m bgl.		8.18							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
7.50	7.80	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Moderate flow at 5.00m. Rose to 4.30 after 5min, 4.20m after 10min, 4.20m after 15min and 4.10m after 20min.

Other Remarks:

1. Grey ash and slight olfactory evidence of hydrocarbon between 2.40-3.00m. 2.Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover

BWB A CAF GROUP COMPANY AGS REGISTERED USER 2023

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
BH04	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	117.62	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454284.88	
	Client:	Oxfordshire RFI	**Northings:**	226437.60	
Hole Type: CP	**Rig:**	Dando 4000	**Start & End Date:**	30/11/2022	**Engineer:** MM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.30]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)									
		117.32 [1.20]			0.30							
			Soft to firm slightly gravelly grey slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)									
		116.12			1.50							
			Hole Terminated at 1.50m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to unstable ground conditions. Location moved within 2.5.m distance.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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AGS REGISTERED USER 2023

BOREHOLE LOG

Scale 1:20 Sheet 1 of 3

LOCATION ID					
BH04A	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	117.73
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454283.92
	Client: Oxfordshire RFI			**Northings:**	226435.73
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	30/11/2022 - 05/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.30]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)									
		117.43 [1.20]	Soft to firm brown slightly gravelly grey slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)		0.30	ES1 B1 D1	0.40 0.50 0.60	0.50 0.50 0.60				
		116.23 [0.70]	Soft dark brown mottled grey slightly gravelly silty CLAY with a low cobble content of angular limestone. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		1.50	B2 D2 ES2	1.50 1.50 1.60	1.50 2.00 1.70	SPT	1.50	N=4 (1,1/1,1,1,1)	1.50m (NR)
		115.53 [1.30]	Soft to firm brown mottled bluish grey slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional decomposed wood and plastic bag fragments and rare glass fragments. (Made Ground)		2.20	D3 ES3	2.50 3.00	3.00 3.10	SPT	2.50	N=6 (1,1/2,1,2,1)	2.50m (NR)
		114.23 [0.70]	Paper, wood, clothes and plastic bags, glass fragments and brown and black sandy clay with moderate organic odour. (Made Ground)		3.50	D4	3.50	4.00	SPT	3.50	N=8 (1,1/2,2,2,2)	3.50m (NR)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
8.70	8.78	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

5.00m bgl water level on 05/12/22 morning

Other Remarks:

1. Grey ash and moderate organic odour between 2.20-3.50m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3 At 5.50, SPT refusal on limestone cobble.

BOREHOLE LOG

LOCATION ID					
BH04A	**Project Name:**	Oxfordshire RFI		**Ground Level (m AOD):**	117.73
	Project Number:	NTH2479 (Ardley Landfill)		**Eastings:**	454283.92
	Client:	Oxfordshire RFI		**Northings:**	226435.73
Hole Type: CP	**Rig:**	Dando 4000	**Start & End Date:** 30/11/2022 - 05/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, clothes and plastic bags, glass fragments and brown and black sandy clay with moderate organic odour. (Made Ground)									
		113.53 [0.80]	Medium dense green and brown very clayey slightly gravelly fine to coarse SAND with occasional black ash. Gravel is angular to subangular fine to medium brick and limestone. (Made Ground)		4.20	ES4	4.20	4.30				
						D5	4.50	5.00	SPT	4.50	N=9 (1,2/2,2,2,3)	4.50m (NR)
▼		112.73 [3.60]	Paper, wood, clothes, carpets and plastic bags, occasional glass fragments and brown and black sandy clay with low cobble content of limestone and moderate organic odour. (Made Ground)		5.00							
						D6	5.50	6.00	SPT	5.50	N=50 (2,3/50 for 240mm)	5.50m (NR)
						ES5	6.50	6.60				
									SPT	7.00	N=25 (2,3/3,2,5,15)	7.00m (NR)
						D7	7.50	8.00				

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
8.70	8.78	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

5.00m bgl water level on 05/12/22 morning

Other Remarks:

1. Grey ash and moderate organic odour between 2.20-3.50m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3 At 5.50, SPT refusal on limestone cobble.

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AGS REGISTERED USER 2023

BOREHOLE LOG

Scale 1:20 Sheet 3 of 3

LOCATION ID					
BH04A	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	117.73
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454283.92
	Client: Oxfordshire RFI			**Northings:**	226435.73
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	30/11/2022 - 05/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, clothes, carpets and plastic bags, occasional glass fragments and brown and black sandy clay with low cobble content of limestone and moderate organic odour. (Made Ground)			D8	8.00	8.50				
									SPT	8.50	N=50 (2,3/50 for 225mm)	8.50m (6.00m bgl)
		109.13 [0.18]	Yellowish brown and grey LIMESTONE recovered as cobble and sandy silty gravel. (White Limestone Formation)		8.60				SPT	8.70	50 (25 for 80mm/50 for 0mm)	8.50m (5.00m bgl)
		108.95	Hole Terminated at 8.78m bgl.		8.78							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
8.70	8.78	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

5.00m bgl water level on 05/12/22 morning

Other Remarks:

1. Grey ash and moderate organic odour between 2.20-3.50m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3 At 5.50, SPT refusal on limestone cobble.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
BH05	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	115.77
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454388.69
	Client: Oxfordshire RFI			**Northings:**	226409.38
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	28/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.20]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)	0.20							
		115.57 [0.30]	Soft to firm dark brown and orangish brown slightly sandy slightly gravelly silty CLAY with a low cobble content of angular limestone. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)	0.50	ES1	0.30	0.30				
		115.27 [1.00]	Firm dark brown mottled grey slightly gravelly slightly silty CLAY with some organic plant matter. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		ES2	1.00	1.00				
								SPT	1.20	N=50 (1,3/50 for 240mm)	
		114.27 [0.50]	Light brown and grey clayey sandy angular to subangular fine to coarse GRAVEL of limestone. (White Limestone Formation)	1.50							
		113.77 [0.30]	Yellowish brown and grey LIMESTONE recovered as cobble and sandy silty gravel. (White Limestone Formation)	2.00				SPT	2.00	50 (5,9/50 for 150mm)	1.50m (NR)
		113.47	Hole Terminated at 2.30m bgl.	2.30							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
2.00	2.10	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated. At 1.20m, SPT refusal due to presence of limestone cobbles.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 3

LOCATION ID					
BH06	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.69
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454349.34
	Client: Oxfordshire RFI			**Northings:**	226344.32
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	16/11/2022 - 18/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)									
		118.59 [0.70]			0.10							
			Firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)									
		117.89 [2.00]			0.80							
			Soft grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)			ES2	1.00	0.85				
									SPT	1.20	N=6 (1,2/1,1,2,2)	1.00m (NR)
						ES3	1.90	5.50				
									SPT	2.00	N=7 (2,2/3,2,1,1)	1.50m (NR)
		115.89 [0.70]			2.80	ES4	2.80	6.30				
			Firm brown mottled orangish brown slightly gravelly sandy CLAY with occasional pockets of black organic clay. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional decomposed wood and plastic bag fragments. (Made Ground)						SPT	3.00	N=10 (2,3/3,2,3,2)	3.00m (NR)
		115.19 [5.00]			3.50							
			Firm brown and black slightly gravelly sandy CLAY with black organic clay pockets and strong organic odour. Gravel is angular fine of limestone and brick. With frequent paper and plastic bag fragments and occasional pipe and decomposed wood fragments.									

Chiseling

From (m bgl)	To (m bgl)	Time (hh:mm)
3.50	3.80	00:50
8.50	9.00	01:00

Water Added

From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 6.10m. Rose to 5.80 after 5min, 5.80m after 10min, stable at 5.80m after 20min.

Other Remarks:

1. Strong organic odour between 3.50-8.50m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. SPT elevated values at 5.00, 6.50 and 8.00m depth due to the nature of the waste material.

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BOREHOLE LOG

LOCATION ID					
BH06	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.69
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454349.34
	Client: Oxfordshire RFI			**Northings:**	226344.32
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	16/11/2022 - 18/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Firm brown and black slightly gravelly sandy CLAY with black organic clay pockets and strong organic odour. Gravel is angular fine of limestone and brick. With frequent paper and plastic bag fragments and occasional pipe and decomposed wood fragments. (Made Ground)						SPT	4.00	N=18 (3,4/3,5,5,5)	3.00m (NR)
			4.00 - 5.00m: Metallic rod.									
						ES5	5.00	5.50	SPT	5.00	N=39 (4,5/8,10,11,10)	4.50m (NR)
						ES6	6.20	6.30				
									SPT	6.50	N=38 (3,4/5,8,12,13)	6.00m (NR)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
3.50	3.80	00:50
8.50	9.00	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 6.10m. Rose to 5.80 after 5min, 5.80m after 10min, stable at 5.80m after 20min.

Other Remarks:

1. Strong organic odour between 3.50-8.50m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. SPT elevated values at 5.00, 6.50 and 8.00m depth due to the nature of the waste material.

BWB A CAF GROUP COMPANY

AGS REGISTERED USER 2023

BOREHOLE LOG

LOCATION ID					
BH06	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.69
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454349.34
	Client: Oxfordshire RFI			**Northings:**	226344.32
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	16/11/2022 - 18/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Firm brown and black slightly gravelly sandy CLAY with black organic clay pockets and strong organic odour. Gravel is angular fine of limestone and brick. With frequent paper and plastic bag fragments and occasional pipe and decomposed wood fragments. (Made Ground)						SPT	8.00	N=43 (8,8/10,10,7,16)	7.50m (NR)
		110.19 (0.60)	Yellowish brown and grey LIMESTONE recovered as sandy silty gravel. (White Limestone Formation)		8.50				SPT	9.00	N=55 (25 for 100mm/55 for 75mm)	9.00m (NR)
		109.59	Hole Terminated at 9.10m bgl.		9.10							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
3.50	3.80	00:50
8.50	9.00	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 6.10m. Rose to 5.80 after 5min, 5.80m after 10min, stable at 5.80m after 20min.

Other Remarks:

1. Strong organic odour between 3.50-8.50m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. SPT elevated values at 5.00, 6.50 and 8.00m depth due to the nature of the waste material.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 3

LOCATION ID					
BH05A	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	116.39
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454363.81
	Client: Oxfordshire RFI			**Northings:**	226405.74
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	28/11/2022 - 29/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.20]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)									
		116.18 [1.30]	Soft dark brown and orangish brown slightly gravelly silty CLAY with a low cobble content of angular limestone. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		0.20	B1	0.30	0.30				
						ES1	0.30					
						ES3	0.40	0.40				
						D1	0.50	0.50				
						B2	1.00	1.00				
						ES2	1.00					
		114.88 [0.60]	Very soft dark brown mottled grey slightly gravelly slightly silty CLAY with some organic plant matter. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		1.50	B3	1.50	1.80	SPT	1.50	N=3 (1,0/1,0,1,1)	1.50m (NR)
						ES4	1.60	1.60				
						D2	1.80	1.80				
						B4	1.90	1.90				
		114.28 [0.60]	Soft grey mottled brown slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional decomposed wood and plastic bags. (Made Ground)		2.10	B5	2.10	2.10				
						D3	2.50	3.00	SPT	2.50	N=4 (1,1/1,1,1,1)	2.50m (NR)
						ES5	2.60	2.60				
		113.68 [3.10]	Paper, wood, plastic bags with occasional glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)		2.70							
						D4	3.50	4.00	SPT	3.50	N=2 (1,0/0,1,0,1)	3.50m (NR)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated on clay possible clay deposits associated with quarrying operation due to time constraints and impossibility to advance 8 inches casing.

Groundwater Remarks:

Fast flow at 7.00m. Rose to 5.15after 5min, 4.95m after 10min, 4.85m after 15min, 4.80m after 20min, 4.78m after 25min and 4.75m after 30min.

Other Remarks:

1. Black ash and moderate organic odour between 2.70-5.80m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. At 5.50m depth, SPT refusal on limestone cobble.

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BOREHOLE LOG

Scale 1:20 Sheet 2 of 3

LOCATION ID					
BH05A	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	116.39
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454363.81
	Client: Oxfordshire RFI			**Northings:**	226405.74
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	28/11/2022 - 29/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, plastic bags with occasional glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)						SPT	4.50	N=4 (1,1/1,1,1,1)	4.50m (NR)
						ES6	5.10	5.20				
									SPT	5.50	N=50 (1,2/50 for 235mm)	5.50m (NR)
		110.58 [1.00]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY with occasional plastic bag, paper, metal and can fragments and a low cobble content of angular limestone. Gravel is angular to subrounded fine to coarse limestone and brick. (Made Ground)		5.80	B6	5.90	6.80				
						ES7	6.00	6.10				
		109.58 [2.10]	Paper, wood, rubber and plastic bags, glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)		6.80	B7	6.90	6.90				
									SPT	7.00	N=6 (1,1/1,2,2,1)	7.00m (NR)
						ES8	7.80	7.90				

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated on clay possible clay deposits associated with quarrying operation due to time constraints and impossibility to advance 8 inches casing.

Groundwater Remarks:

Fast flow at 7.00m. Rose to 5.15after 5min, 4.95m after 10min, 4.85m after 15min, 4.80m after 20min, 4.78m after 25min and 4.75m after 30min.

Other Remarks:

1. Black ash and moderate organic odour between 2.70-5.80m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. At 5.50m depth, SPT refusal on limestone cobble.

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BOREHOLE LOG

Scale 1:20 Sheet 3 of 3

LOCATION ID					
BH05A	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	116.39
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454363.81
	Client: Oxfordshire RFI			**Northings:**	226405.74
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	28/11/2022 - 29/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, rubber and plastic bags, glass fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)						SPT	8.50	N=7 (1,1/1,2,2,2)	8.00m (5.20m bgl)
		107.48 [0.10]			8.90							
		107.38 [1.45]	Angular cobble of Limestone. (Made Ground)		9.00				SPT	9.00	N=24 (10,10/15,4,3,2)	8.50m (5.00m bgl)
			Firm dark brown slightly gravelly slightly silty CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)			B8	9.10	9.10				
						ES9	9.50	9.60				
									SPT	10.00	N=15 (2,3/4,4,4,3)	8.50m (5.00m bgl)
		105.94	Hole Terminated at 10.45m bgl.		10.45							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated on clay possible clay deposits associated with quarrying operation due to time constraints and impossibility to advance 8 inches casing.

Groundwater Remarks:

Fast flow at 7.00m. Rose to 5.15after 5min, 4.95m after 10min, 4.85m after 15min, 4.80m after 20min, 4.78m after 25min and 4.75m after 30min.

Other Remarks:

1. Black ash and moderate organic odour between 2.70-5.80m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. At 5.50m depth, SPT refusal on limestone cobble.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 2

LOCATION ID					
BH07	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.69
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454548.59
	Client: Oxfordshire RFI			**Northings:**	226212.94
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	16/11/2022 - 17/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)									
		118.59 [0.70]			0.10							
			Firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)			ES1	0.30	0.30				
						B1	0.40	0.80				
		117.89 [0.40]			0.80	B2	0.80	1.20				
			Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)			ES2	0.85	0.85				
		117.49 [0.50]			1.20	B3	1.20	1.70	SPT	1.20	N=18 (3,4/4,4,5,5)	
			Firm brown mottled grey slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash, decomposed wood and plastic bags. Gravel is subangular to rounded fine to coarse flint, limestone and brick. With occasional . (Made Ground)									
		116.99 [1.80]			1.70							
			Paper and plastic bag fragments and occasional decomposed wood fragments with occasional brown and black sandy clay, with strong organic odour. (Made Ground)			B4	2.50	3.00	SPT	2.50	50 (25 for 0mm/50 for 0mm)	1.50m (NR)
		115.19 [2.00]			3.50	B5	3.50	4.00	SPT	3.50	N=22 (10,12/10,5,5,2)	3.00m (NR)
			Paper and plastic bag fragments and occasional decomposed wood and cable fragments, with occasional brown and black sandy clay with strong organic odour. (Made Ground)									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
6.50	7.60	02:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 5.00m. Rose to 4.80 after 5min, stable at 4.80m after 20min.

Other Remarks:

1. Grey ash detected between 1.30-5.00m, moderate organic odour detected between 5.00-7.00m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. At 2.50m, SPT test refused for presence of wood and compacted blankets and mats.

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BOREHOLE LOG

Scale 1:20 Sheet 2 of 2

LOCATION ID					
BH07	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	118.69
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454548.59
	Client: Oxfordshire RFI			**Northings:**	226212.94
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	16/11/2022 - 17/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper and plastic bag fragments and occasional decomposed wood and cable fragments, with occasional brown and black sandy clay with strong organic odour. (Made Ground)			B6	4.50	5.00	SPT	4.50	N=22 (2,3/5,5,7,5)	4.50m (NR)
		113.19 (1.70)	Paper and plastic bags, possible asbestos containing material fire blankets, occasional decomposed wood and cable fragments and cable with much brown and black sandy clay. (Made Ground)		5.50	B7 ES3	5.50 5.50	6.00	SPT	5.50	N=15 (8,7/5,4,3,3)	4.50m (NR)
									SPT	6.00	50 (25 for 0mm/50 for 0mm)	6.00m (NR)
						B8	6.50	7.00				
		111.49 (0.40)	Yellowish brown and grey LIMESTONE recovered as sandy silty gravel. (White Limestone Formation)		7.20	B9	7.20	7.50				
									SPT	7.50	50 (25 for 30mm/50 for 21mm)	7.00m (NR)
		111.09	Hole Terminated at 7.60m bgl.		7.60							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
6.50	7.60	02:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 5.00m. Rose to 4.80 after 5min, stable at 4.80m after 20min.

Other Remarks:

1. Grey ash detected between 1.30-5.00m, moderate organic odour detected between 5.00-7.00m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover. 3. At 2.50m, SPT test refused for presence of wood and compacted blankets and mats.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 2

LOCATION ID					
BH08	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	114.19
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454077.74
	Client: Oxfordshire RFI			**Northings:**	226521.64
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	05/12/2022 - 06/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.20]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)									
		113.99 [0.30]			0.20	B1	0.20	0.30				
						ES1	0.20	0.50				
			Soft to firm brown slightly gravelly grey slightly gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)			D1	0.30	0.40				
		113.69 [0.80]			0.50							
			Firm friable reddish brown slightly gravelly sandy silty CLAY. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)									
						ES2	0.90	1.00				
						B2	1.00	1.50				
						D2	1.10	1.20				
									SPT	1.20	N=7 (2,2/2,2,1,2)	1.20m (NR)
		112.89 [3.70]			1.30							
			Firm grey mottled brown slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash, occasional decomposed wood and plastic bags. Gravel is angular to sub angular fine to coarse flint, limestone and brick. (Made Ground)			ES3	1.40	1.50				
						B3	2.00	2.50	SPT	2.00	50 (3,4/50 for 185mm)	2.00m (NR)
						B3	2.00					
						D3	2.30	2.40				
						ES4	2.40	2.50				
						B4	3.00	3.50	SPT	3.00	N=11 (2,2/3,3,2,3)	3.00m (NR)
						D4	3.30	3.40				

Chiseling

From (m bgl)	To (m bgl)	Time (hh:mm)
2.00	2.50	01:00
7.30	7.50	01:00

Water Added

From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 6.00m, sealed at 7.00m. Rose to 5.90 after 5min, 5.80m after 10min, stable at 5.75m after 20min.

Other Remarks:

1. Moderate organic odour detected between 5.00-7.00m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover.

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BOREHOLE LOG

Scale 1:20 Sheet 2 of 2

LOCATION ID					
BH08	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	114.19
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454077.74
	Client: Oxfordshire RFI			**Northings:**	226521.64
Hole Type: CP	**Rig:** Dando 3000	**Start & End Date:**	05/12/2022 - 06/12/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Firm grey mottled brown slightly gravelly sandy CLAY with occasional pockets of black organic clay and grey ash, occasional decomposed wood and plastic bags. Gravel is angular to sub angular fine to coarse flint, limestone and brick. (Made Ground)			B5	4.00	4.50	SPT	4.00	N=12 (1,2/2,3,4,3)	4.00m (NR)
						ES5	4.40	4.50				
		109.19 [2.00]	Paper, wood, mats and plastic bags, occasional glass and can fragments and brown and black sandy clay, with moderate organic odour. (Made Ground)		5.00	B6	5.00	5.50	SPT	5.00	N=15 (2,3/3,3,4,5)	5.00m (NR)
									SPT	6.50	N=21 (2,3/4,5,6,6)	6.00m (NR)
		107.19 [0.50]	Yellowish brown and grey LIMESTONE recovered as cobble and sandy silty gravel. (White Limestone Formation)		7.00							
						D5	7.40	7.50				
		106.69	Hole Terminated at 7.50m bgl.		7.50				SPT	7.50	50 (4,8/50 for 70mm)	7.00m (NR)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
2.00	2.50	01:00
7.30	7.50	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Slow flow at 6.00m, sealed at 7.00m. Rose to 5.90 after 5min, 5.80m after 10min, stable at 5.75m after 20min.

Other Remarks:

1. Moderate organic odour detected between 5.00-7.00m. 2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 4

LOCATION ID					
BH09	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	122.08
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454130.12
	Client: Oxfordshire RFI			**Northings:**	226435.42
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	22/11/2022 - 25/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.20]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)									
		121.88 [0.50]	Soft to firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to coarse flint and limestone. (Made Ground)		0.20	ES1	0.30	0.30				
						D1	0.40	0.40				
						B1	0.50	0.50				
		121.38 [1.00]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to coarse limestone, brick and sandstone. (Made Ground)		0.70	B2	0.80	0.80				
						ES2	0.80					
						D2	0.90	0.90				
						D3	1.50	1.95	SPT	1.50	N=11 (1,1/2,2,5,2)	1.50m (NR)
		120.38 [0.80]	Paper, wood, cardboards, plastic bags and occasional brown and black sandy clay, with moderate organic odour. (Made Ground)		1.70	B3	1.80	1.80				
		119.58 [1.50]	Carpet, wood, cardboards, plastic bag fragments with occasional brown and black sandy clay and low cobble content of brick, with moderate organic odour. (Made Ground)		2.50	D4	2.50	3.00	SPT	2.50	N=14 (2,2/3,5,5,1)	2.50m (NR)
						ES3	3.40	3.50				
						D5	3.50	4.00	SPT	3.50	N=8 (1,1/2,3,2,1)	3.50m (NR)

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
11.90	11.95	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Fast flow at 10.30m. Rose to 8.60 after 5min, 8.40m after 10min, stable at 8.40m after 20min.

Other Remarks:

1. Moderate organic odour detected between 2.50-4.00m and 5.00-9.00m. Moderate hydrocarbon odour between 9.00-11.80m.
2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover.

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BOREHOLE LOG

LOCATION ID					
BH09	**Project Name:**	Oxfordshire RFI		**Ground Level (m AOD):**	122.08
	Project Number:	NTH2479 (Ardley Landfill)		**Eastings:**	454130.12
	Client:	Oxfordshire RFI		**Northings:**	226435.42
Hole Type: CP	**Rig:**	Dando 4000	**Start & End Date:** 22/11/2022 - 25/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		118.08 [1.00]	Carpet, wood, cardboards, plastic bag fragments with occasional brown and black sandy clay and low cobble content of brick, with moderate organic odour. (Made Ground)		4.00	ES4	4.10	4.20				
						B4	4.20	4.20				
			Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY with occasional plastic bag fragments. Gravel is angular to subrounded fine to coarse limestone and brick. (Made Ground)						SPT	4.50	N=6 (1,1/1,1,2,2)	4.50m (NR)
		117.08 [4.00]			5.00							
			Paper, wood, cardboards, plastic bag fragments and occasional clothes and metal fragments with much soft to firm brown and black sandy clay, with moderate organic odour. (Made Ground)			D6	5.50	6.00	SPT	5.50	N=9 (1,3/3,2,1,3)	5.50m (NR)
						ES5	5.90	6.00				
						D7	7.00	7.50	SPT	7.00	N=11 (0,1/1,2,3,5)	7.00m (NR)
						B5	7.50	8.00				

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
11.90	11.95	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Fast flow at 10.30m. Rose to 8.60 after 5min, 8.40m after 10min, stable at 8.40m after 20min.

Other Remarks:

1. Moderate organic odour detected between 2.50-4.00m and 5.00-9.00m. Moderate hydrocarbon odour between 9.00-11.80m.
2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover.

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BOREHOLE LOG

Scale 1:20 Sheet 3 of 4

LOCATION ID					
BH09	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	122.08
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454130.12
	Client: Oxfordshire RFI			**Northings:**	226435.42
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	22/11/2022 - 25/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Paper, wood, cardboards, plastic bag fragments and occasional clothes and metal fragments with much soft to firm brown and black sandy clay, with moderate organic odour. (Made Ground)			ES6	7.90	8.00				
						D8	8.50	8.95	SPT	8.50	N=4 (1,1/1,1,1,1)	8.50m (NR)
		113.08 [2.80]	Soft to firm brown and dark grey and brown slightly gravelly sandy CLAY with black organic clay pockets and moderate organic and hydrocarbon odour. Gravel is angular fine of limestone, concrete and brick. With frequent paper and plastic bag fragments and occasional cardboard, metal, clothes and decomposed wood fragments. (Made Ground)		9.00							
									SPT	10.00	N=7 (1,2/2,1,3,1)	10.00m (NR)
						ES7	11.20	11.30				
									SPT	11.50	50 (1,2/50 for 150mm)	11.50m (8.20m bgl)
						D9	11.60	11.80				

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
11.90	11.95	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Fast flow at 10.30m. Rose to 8.60 after 5min, 8.40m after 10min, stable at 8.40m after 20min.

Other Remarks:

1. Moderate organic odour detected between 2.50-4.00m and 5.00-9.00m. Moderate hydrocarbon odour between 9.00-11.80m.
2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover.

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BOREHOLE LOG

Scale 1:20 Sheet 4 of 4

LOCATION ID					
BH09	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	122.08
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454130.12
	Client: Oxfordshire RFI			**Northings:**	226435.42
Hole Type: CP	**Rig:** Dando 4000	**Start & End Date:**	22/11/2022 - 25/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		110.28 [0.15]	Soft to firm brown and dark grey and brown slightly gravelly sandy CLAY with black organic clay pockets and moderate organic and hydrocarbon odour. Gravel is angular fine of limestone, concrete and brick. With frequent paper and plastic bag fragments and occasional cardboard, metal, clothes and decomposed wood fragments. (Made Ground)		11.80	D10	11.80	11.95				
		110.13	Yellowish brown and grey LIMESTONE recovered as sandy silty gravel. (White Limestone Formation)		11.95							
			Hole Terminated at 11.95m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)
11.90	11.95	01:00

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated once bedrock proven in accordance with Environment Agency approved Construction Quality Assurance (CQA) Plan.

Groundwater Remarks:

Fast flow at 10.30m. Rose to 8.60 after 5min, 8.40m after 10min, stable at 8.40m after 20min.

Other Remarks:

1. Moderate organic odour detected between 2.50-4.00m and 5.00-9.00m. Moderate hydrocarbon odour between 9.00-11.80m.
2. Installed with 50mm HDPE well screen, geosock filter, gas tap and lockable raised cover.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS201	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	119.11
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454095.20
	Client: Oxfordshire RFI			**Northings:**	226645.27
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:**	21/11/2022	**Engineer:** PM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.30]	Soft dark brown slightly gravelly slightly clayey sandy SILT with occasional rootlets. Gravel is subangular to rounded fine to coarse limestone. (Topsoil)									
		118.81 [1.20]	Firm dark brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse limestone, chalk and brick. (Made Ground)		0.30	B1	0.50	1.00				
						D1	0.60	0.70				
			1.15 - 1.25m: grey gravelly slightly sandy clayey SILT.									
						D2	1.30	1.40				
		117.61 [0.35]	Firm friable grey gravelly slightly sandy silty CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)		1.50	D3	1.60	1.70				
		117.26 [0.70]	Firm black ashy slightly gravelly silty CLA with occasional glass and plastic bags. Gravel is angular to subrounded fine to coarse limestone, brick and flint. (Made Ground)		1.85							
			2.20 - 2.55m: Mostly plastic bags.									
		116.56	Hole Terminated at 2.55m bgl.		2.55							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS202	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	119.15	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454132.55	
	Client:	Oxfordshire RFI	**Northings:**	226612.67	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	21/11/2022	**Engineer:** PM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.30]	Soft dark brown slightly gravelly slightly clayey sandy SILT with occasional rootlets. Gravel is subangular to rounded fine to coarse limestone. (Topsoil)									
		118.85 [1.70]	Firm dark brown mottled grey slightly gravelly slightly sandy silty CLAY with occasional pockets of sand and organic clay. Gravel is subangular to subrounded fine to coarse limestone and sandstone. (Made Ground)		0.30	B1	0.50	0.90				
						D1	0.70	0.80				
			1.00 - 2.00m: Firm.									
						D2	1.40	1.50				
			1.70 - 1.90m: No recovery.									
						D3	1.80	1.90				
		117.15 [0.13]	Firm grey gravelly slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)		2.00							
		117.02 [0.07]			2.13							
		116.95	Black ashy slightly clayey silty angular to subangular fine to coarse GRAVEL of plastic fragments and slag. With occasional glass fragments and light hydrocarbon odour. (Made Ground)		2.20							
			Hole Terminated at 2.20m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Slag and light hydrocarbon odour detected between 2.13-2.20m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS203	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	119.68	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454144.34	
	Client:	Oxfordshire RFI	**Northings:**	226555.71	
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 21/11/2022	**Engineer:** PM	**Checker:** RR	

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend / Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.35]	Soft dark brown slightly gravelly slightly clayey sandy SILT with occasional rootlets. Gravel is subangular to rounded fine to coarse limestone. (Topsoil)								
		119.33 [0.25]		0.35	D1	0.40	0.50				
			Light grey slightly gravelly slightly sandy slightly silty subangular to subrounded fine to coarse GRAVEL of sandstone and limestone. (Made Ground)								
		119.08 [0.70]		0.60	D1	0.60	0.70				
			Firm dark brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse limestone and sandstone. (Made Ground)								
		118.38 [1.90]		1.30							
			Black ashy slightly silty gravelly fine to medium SAND with some glass, papers, plastic bags and wood fragments and light hydrocarbon odour. Gravel is angular to subangular fine to coarse GRAVEL of plastic fragments and slag. (Made Ground)								
			1.60 - 2.0m: No recovery.								
			2.50 - 3.0m: No recovery.								
		116.48	Hole Terminated at 3.20m bgl.	3.20							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Black ash and light hydrocarbon odour noted between 1.30-3.20m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS204	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	118.74	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454057.00	
	Client:	Oxfordshire RFI	**Northings:**	226552.99	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	22/11/2022	**Engineer:** MM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Soft dark brown slightly gravelly slightly clayey sandy SILT with occasional rootlets. Gravel is subangular to rounded fine to coarse limestone. (Topsoil)									
		118.34 [1.10]			0.40							
			Firm dark brown mottled grey slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse limestone, flint and brick. (Made Ground)			B1	0.60	1.00				
						D1	1.40	1.50				
		117.24 [0.90]	No recovery. (Made Ground)		1.50							
		116.34	Hole Terminated at 2.40m bgl.		2.40							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS205	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	119.78	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454069.77	
	Client:	Oxfordshire RFI	**Northings:**	226480.41	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	22/11/2022	**Engineer:** MM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (U/blows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Soft dark brown slightly gravelly slightly clayey sandy SILT with occasional rootlets. Gravel is subangular to rounded fine to coarse limestone. (Topsoil)			B1	0.20	0.40				
		119.38 [1.10]	Firm brown mottled orangish brown and grey slightly gravelly slightly clayey sandy SILT with occasional rootlets. Gravel is subangular to subrounded fine to coarse limestone. (Made Ground)		0.40	D1	0.40	0.50				
						B1	1.40	1.50				
		118.28 [0.25]	Light brown slightly sandy fine to coarse angular GRAVEL of limestone with a low cobble content of limestone. (Made Ground)		1.50							
		118.03 [0.65]	Firm dark grey and brown slightly gravelly silty CLAY with light organic odour and frequent paper, plastic bag and wood fragments.. Gravel is angular to subangular fine to coarse slag and sandstone. (Made Ground)		1.75							
		117.38	Hole Terminated at 2.40m bgl.		2.40							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

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LOCATION ID					
DS206	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	121.34
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454134.12
	Client: Oxfordshire RFI			**Northings:**	226478.53
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:**	22/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Soft dark brown slightly gravelly silty sandy CLAY with occasional rootlets. Gravel is subangular to subangular fine to coarse limestone and sandstone. (Topsoil)									
		120.94 [0.90]	Firm light brown mottled orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)		0.40	D1	0.70	0.80				
		120.04 [0.50]	Firm to stiff grey mottled brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse limestone. (Made Ground)		1.30	D2	1.50	1.60				
		119.54 [0.50]	Firm dark grey and brown slightly gravelly silty CLAY with occasional pockets of sand, plastic bags, glass and wood fragments, and a light organic odour. Gravel is angular to subangular fine to coarse clinker and brick. With occasional (Made Ground)		1.80							
		119.04	Hole Terminated at 2.30m bgl.		2.30							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS207	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	119.95	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454175.49	
	Client:	Oxfordshire RFI	**Northings:**	226517.25	
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 21/11/2022	**Engineer:** PM	**Checker:** RR	

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Soft dark brown slightly gravelly silty sandy CLAY. Gravel is angular to subangular fine to coarse limestone and sandstone. (Topsoil)									
		119.55 [0.40]	Soft dark brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium sandstone. (Made Ground)		0.40	B1	0.40	0.80				
						D1	0.50	0.60				
		119.15 [0.80]	Firm dark brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse limestone, coal and sandstone. (Made Ground)		0.80	D2	0.80	0.80				
		118.35 [1.00]	Firm dark grey and brown slightly gravelly silty CLAY with occasional pockets of sand, plastic bags and wood fragments, and a light organic odour. Gravel is angular to subangular fine to coarse slag and sandstone. (Made Ground)		1.60							
						D3	2.40	2.50				
		117.35	Hole Terminated at 2.60m bgl.		2.60							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Slag and a light organic odour between 2.20-2.60m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS208	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	122.12	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454134.82	
	Client:	Oxfordshire RFI	**Northings:**	226421.45	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	22/11/2022	**Engineer:** MM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.40]	Soft dark brown slightly gravelly silty sandy CLAY. Gravel is angular to subangular fine to coarse limestone and sandstone. (Topsoil)			B1	0.20	0.40				
		121.72 [0.60]	Firm dark brown mottled orangish brown and grey slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine to medium sandstone, limestone and flint. (Made Ground)		0.40							
		121.12 [0.60]	No recovery (cobble pushed downwards) (Made Ground)		1.00							
		120.52 [0.60]	Soft light brown mottled reddish brown slightly gravelly sandy CLAY with an angular cobble of limestone. Gravel is angular to subangular fine to coarse limestone and brick. (Made Ground)		1.60							
		119.92 [0.40]	Firm ashy dark grey and brown slightly gravelly silty CLAY with light hydrocarbon odour. Gravel is angular to subangular fine to coarse slag and sandstone. With frequent paper, plastic bag and wood fragments. (Made Ground)		2.20							
		119.52	Hole Terminated at 2.60m bgl.		2.60							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

Slow flow at 2.20m.

Other Remarks:

1. Slag and a light hydrocarbon odour between 2.20-2.60m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 2

LOCATION ID					
DS209	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	117.85
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454242.31
	Client: Oxfordshire RFI			**Northings:**	226471.74
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:**	18/11/2022	**Engineer:** PM	**Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.30]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)									
		117.55 [0.90]			0.30							
			Firm friable brown slightly gravelly slightly sandy silty CLAY with a low cobble content of angular brick and limestone. Gravel is subangular to rounded fine to coarse limestone, chalk and brick. (Made Ground)			B1 ES1	0.50 0.50	0.80				
						D1	1.00	1.00				
▼		116.65 [4.60]			1.20	ES2	1.20	1.40				
			Firm dark grey brown slightly gravelly slightly silty CLAY with some organic plant matter, occasional plastic bags, glass and wood fragments. Gravel is subangular to subrounded fine to medium limestone and brick. (Made Ground)									
			1.45 - 1.80m: No recovery.									
						D2	2.10	2.10				
						ES3	3.00	3.20				
			3.13 - 3.80m: No recovery.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

Perched water at 1.20m bgl. Slow flow at 4.50m.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

Scale 1:20 Sheet 2 of 2

LOCATION ID				
DS209	**Project Name:** Oxfordshire RFI		**Ground Level (m AOD):**	117.85
	Project Number: NTH2479 (Ardley Landfill)		**Eastings:**	454242.31
	Client: Oxfordshire RFI		**Northings:**	226471.74
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 18/11/2022	**Engineer:** PM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			Firm dark grey brown slightly gravelly slightly silty CLAY with some organic plant matter, occasional plastic bags, glass and wood fragments. Gravel is subangular to subrounded fine to medium limestone and brick. (Made Ground)			D3	4.00	4.00				
			4.50 - 4.80m: No recovery.			ES4	5.00	5.20				
			5.25 - 5.80m: No recovery.									
		112.05	Hole Terminated at 5.80m bgl.		5.80							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

Perched water at 1.20m bgl. Slow flow at 4.50m.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS210	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	116.13	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454314.86	
	Client:	Oxfordshire RFI	**Northings:**	226460.04	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	18/11/2022	**Engineer:** PM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.15]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets.									
		115.98 [1.15]	(Topsoil)		0.15							
			Soft becoming firm brown slightly sandy gravelly CLAY with a medium cobble content of angular limestone. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)			B1	0.50	0.50				
						ES1	0.50	1.00				
						D1	1.10	1.60				
		114.83 [0.40]	Firm brown mottled dark grey slightly gravelly slightly silty CLAY with some pockets of sand. Gravel is subangular to subrounded fine to coarse limestone, sandstone and quartz. (White Limestone Formation)		1.30							
						ES2	1.60	1.60				
		114.43	Hole Terminated at 1.70m bgl.		1.70							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on bedrock.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS211	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	116.13	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454362.26	
	Client:	Oxfordshire RFI	**Northings:**	226405.27	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	18/11/2022	**Engineer:** PM **Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.20]	Soft to firm brown slightly clayey sandy SILT with occasional rootlets. (Topsoil)									
		115.93 [1.30]	Soft dark brown and orangish brown slightly gravelly silty CLAY with a low cobble content of angular limestone. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		0.20	B1 ES1	0.50 0.50	1.00				
		114.63 [0.70]	Firm dark grey mottled brown slightly gravelly slightly silty CLAY with some organic plant matter. Gravel is subangular to rounded fine to coarse limestone , siltstone, chalk and brick. (Made Ground)		1.50	ES2	1.70	1.70				
		113.93	Hole Terminated at 2.20m bgl.		2.20							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

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LOCATION ID					
DS212	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	119.23	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454318.14	
	Client:	Oxfordshire RFI	**Northings:**	226363.99	
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 17/11/2022	**Engineer:** MM	**Checker:** RR	

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)									
		119.13 [1.20]			0.10							
			Soft to firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)			ES1	0.30	0.40				
						D1	0.40	0.50				
						B1	0.50	1.00				
		117.93 [0.80]			1.30							
			Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)			D2	1.40	1.50				
						ES2	1.50	1.60				
		117.13 [0.30]			2.10	ES3	2.10	2.30				
			Firm dark grey mottled brown and black slightly gravelly CLAY with light hydrocarbon odour, much paper, wood and plastic bag fragments and black ash. Gravel is angular to subangular medium to coarse limestone. (Made Ground)									
		116.83			2.40							
			Hole Terminated at 2.40m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Black ash and light hydrocarbon odour noted between 2.10-2.40m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

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LOCATION ID					
DS213	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	120.13	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454254.63	
	Client:	Oxfordshire RFI	**Northings:**	226407.96	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	18/11/2022	**Engineer:** PM **Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.46]	Soft to firm light brown and orangish brown sandy CLAY. (Topsoil)			D1	0.00	0.40				
		119.67 [0.34]	Firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		0.46	B1 ES1	0.40 0.40	0.80				
		119.33 [0.60]	Light brown gravelly slightly clayey fine to medium SAND. Gravel is subangular to rounded fine to coarse limestone. (Made Ground)		0.80	D2	0.80	1.00				
		118.73 [0.35]	Firm grey mottled brown and orangish brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)		1.40	D3	1.50	1.50				
		118.38 [0.60]	Firm dark grey slightly gravelly slightly silty CLAY. Gravel is angular fine to coarse of limestone, clinker and brick. With frequent wood and plastic bags. (Made Ground) *1.80 - 1.90m: No recovery.*		1.75	ES2	1.80	1.90				
						D4	2.10	2.10				
		117.78 [0.65]	No Recovery (Made Ground)		2.35							
		117.13	Hole Terminated at 3.00m bgl.		3.00							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS215	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	117.38	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454380.27	
	Client:	Oxfordshire RFI	**Northings:**	226332.91	
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 17/11/2022	**Engineer:** MM	**Checker:** RR	

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)									
		117.28 [0.90]			0.10							
			Firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)			D1	0.40	0.50				
						B1	0.50	0.60				
						ES1	0.50	1.00				
▼		116.38 [0.60]			1.00							
			Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)			D2	1.30	1.40				
		115.78 [0.40]			1.60	ES2	1.60	1.70				
			Soft to firm grey mottled brown and black slightly gravelly CLAY with paper and plastic bag fragments and black ash. Gravel is angular to subangular medium to coarse limestone. (Made Ground)			ES3	1.70	1.90				
		115.38	Hole Terminated at 2.00m bgl.		2.00							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

Perched water at 1.00m bgl.

Other Remarks:

1. Black ash but not olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS214	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	120.05	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454194.41	
	Client:	Oxfordshire RFI	**Northings:**	226474.46	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	05/11/2022	**Engineer:** PM **Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.25]	Soft brown slightly sandy clayey SILT with occasional rootlets. (Topsoil)			D1	0.20	0.20				
		119.80 [1.15]	Soft dark brown slightly gravelly slightly sandy silty CLAY. Gravel is angular to subangular fine to medium sandstone. (Made Ground)		0.25	ES1	0.70	0.90				
						D2	1.30	1.30				
		118.65 [0.35]	Firm grey slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse limestone and brick. (Made Ground)		1.40	ES2	1.40	1.50				
						D3	1.60	1.60				
		118.30 [0.75]	Soft to firm dark grey and brown slightly gravelly silty CLAY with some some plastic bags, paper, glass and wood and a light organic odour. Gravel is subangular to subrounded fine to coarse brick. (Made Ground)		1.75	ES3	2.20	2.30				
						D4	2.30	2.30				
		117.55	Hole Terminated at 2.50m bgl.		2.50							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS216	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	117.63
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454433.74
	Client: Oxfordshire RFI			**Northings:**	226288.51
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:**	16/11/2022 - 17/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)		0.10							
		117.53 [0.35]	Firm light brown mottled orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)		0.45	ES1	0.20	0.30				
		117.18 [0.50]	Light brown and grey gravelly very clayey sandy angular to subangular fine to coarse GRAVEL of limestone. (Made Ground)		0.95	D1	0.30	0.40				
		116.68 [0.65]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)		1.60	B1	0.40	0.90				
▼						D2	1.30	1.40				
		116.03 [0.20]	Soft to firm grey and black sandy CLAY with paper and plastic bags. (Made Ground)		1.80	ES2	1.60	1.70				
		115.83 [0.20]	No recovery (Made Ground)		2.00							
		115.63 [0.60]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)		2.60	D3	2.50	2.60				
		115.03 [0.10]	Soft to firm grey and black sandy CLAY with paper and plastic bag fragments, occasional black ash and moderate hydrocarbon odour. (Made Ground)		2.70	ES3	2.60	2.70				
		114.93 [0.10]	Light brown slightly sandy fine to coarse angular GRAVEL of limestone. (Made Ground)		2.80							
		114.83	Hole Terminated at 2.80m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

Perched water at 1.50m bgl.

Other Remarks:

1. Black ash between 1.60-1.80m, black ash and moderate hydrocarbon odour between 2.60-2.70m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS217	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	116.65
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454477.37
	Client: Oxfordshire RFI			**Northings:**	226257.69
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:**	15/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & [Thickness (m)]	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.15]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets.									
		116.50 [0.25]	(Topsoil)		0.15	ES1	0.20	0.30				
			Soft to firm brown mottled light grey slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and sandstone.									
		116.25 [0.95]	(Made Ground)		0.40	B1	0.40	0.80				
							0.40					
			Light brown and grey gravelly very clayey fine to coarse SAND. Gravel is subangular to rounded fine to coarse limestone, sandstone and brick.			D1	0.50	0.60				
			(Made Ground)									
						ES2	0.80	0.90				
		115.30 [0.25]	Firm grey slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse quartzite and sandstone.		1.35	D2	1.40	1.50				
			(Made Ground)									
		115.05 [0.15]	Light brown slightly sandy fine to coarse angular GRAVEL of limestone with a low cobble content of limestone.		1.60							
		114.90 [0.25]	(Made Ground)		1.75	ES3	1.80	1.90				
			Soft to firm dark grey and black slightly gravelly grey sandy CLAY with occasional decomposed rootlets, decomposed wood fragments, paper and plastic bags and plastic fragments, grey ash and strong organic odour. Gravel is subangular to rounded fine to medium limestone and sandstone.									
		114.65 [0.50]	(Made Ground)		2.00							
			No recovery									
			(Made Ground)									
		114.15 [0.95]	Soft to firm dark grey and black slightly gravelly grey sandy CLAY with occasional decomposed rootlets, decomposed wood fragments, paper and plastic bags and plastic fragments, grey ash and a strong organic odour. Gravel is subangular to rounded fine to medium limestone and sandstone.		2.50	ES4	2.50	2.60				
			(Made Ground)									
		113.20 [0.05]			3.45							
		113.15	Light brown and grey gravelly very clayey fine to coarse SAND. Gravel is subangular to rounded fine to coarse quartzite and sandstone.		3.50							
			(Made Ground)									
			Hole Terminated at 3.50m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

Slow flow at 2.75m.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS218	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	115.13	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454522.75	
	Client:	Oxfordshire RFI	**Northings:**	226236.40	
Hole Type: WLS	**Rig:**	Geotool FSX	**Start & End Date:**	15/11/2022	**Engineer:** MM **Checker:** RR

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.15]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets.									
		114.98 [0.85]	(Topsoil)		0.15							
			Soft to firm light brown and orangish brown slightly gravelly sandy CLAY with rare cobble content of angular brick. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)			ES1	0.30	0.40				
						D1	0.40	0.50				
						B1	0.70	1.00				
		114.13 [0.90]	No recovery (Made Ground)		1.00							
		113.23 [0.10]	Firm grey slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse quartzite and sandstone. (Made Ground)		1.90							
		113.13 [0.40]	No recovery (Made Ground)		2.00							
		112.73	Hole Terminated at 2.40m bgl.		2.40							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. No visual or olfactory evidence of contamination. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 2

LOCATION ID				
DS218A	**Project Name:** Oxfordshire RFI		**Ground Level (m AOD):**	114.97
	Project Number: NTH2479 (Ardley Landfill)		**Eastings:**	454524.19
	Client: Oxfordshire RFI		**Northings:**	226237.42
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 15/11/2022	**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.15]	Soft to firm light brown and orangish brown slightly gravelly sandy CLAY with rare cobble content of angular brick. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Topsoil)									
		114.82 [1.15]			0.15							
			Soft to firm friable slightly gravelly grey sandy CLAY with many rootlets and occasional roots. Gravel is subangular to rounded fine to coarse quartzite and sandstone. (Made Ground)									
		113.67 [0.30]			1.30							
			Firm grey slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse quartzite and sandstone. (Made Ground)			D1	1.40	1.50				
		113.37 [0.20]			1.60							
			Light brown slightly sandy fine to coarse angular GRAVEL of limestone with a low cobble content of limestone. (Made Ground)									
		113.17 [0.20]			1.80							
			Soft to firm dark grey and black slightly gravelly grey sandy CLAY with occasional decomposed rootlets, decomposed wood fragments, plastic fragments, paper and plastic bags, grey ash and a strong hydrocarbon odour. Gravel is subangular to rounded fine to medium limestone and sandstone. (Made Ground)			ES1	1.90	2.00				
		112.97 [3.30]			2.00							
			No recovery (Made Ground)									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Grey ash and strong hydrocarbon odour between 1.80-2.00m and strong organic odour between 5.30-5.50m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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BOREHOLE LOG

Scale 1:20 Sheet 2 of 2

LOCATION ID					
DS218A	**Project Name:**	Oxfordshire RFI	**Ground Level (m AOD):**	114.97	
	Project Number:	NTH2479 (Ardley Landfill)	**Eastings:**	454524.19	
	Client:	Oxfordshire RFI	**Northings:**	226237.42	
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 15/11/2022	**Engineer:** MM	**Checker:** RR	

Boring		Strata			Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
			No recovery (Made Ground)									
		109.67 [0.20]	Soft dark grey and black slightly gravelly grey sandy CLAY with occasional decomposed rootlets, decomposed wood fragments, plastic fragments, paper and plastic bags, grey ash and strong organic odour. Gravel is subangular to rounded fine to medium limestone and sandstone. (Made Ground)		5.30	ES2	5.30	5.60				
		109.47 [0.10]			5.50							
		109.37	Firm grey slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse quartzite and sandstone. (Made Ground)		5.60							
			Hole Terminated at 5.60m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Grey ash and strong hydrocarbon odour between 1.80-2.00m and strong organic odour between 5.30-5.50m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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AGS REGISTERED USER 2023

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS219	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	113.72
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454586.33
	Client: Oxfordshire RFI			**Northings:**	226182.74
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:** 16/11/2022		**Engineer:** MM	**Checker:** RR

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.15]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets.									
		113.57 [0.25]	(Topsoil)		0.15							
			Firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick.									
		113.32 [0.70]	(Made Ground)		0.40	B1	0.40	1.00				
			Firm light brown and light grey gravelly slightly sandy CLAY with rare cobble content of limestone. Gravel is subangular to rounded fine to coarse flint and limestone.			ES1	0.50	0.60				
			(Made Ground)									
		112.62 [0.80]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone.		1.10	B2	1.10	1.80				
			(Made Ground)			ES2	1.20	1.30				
						D1	1.30	1.40				
						ES3	1.80	1.90				
		111.82 [0.10]	Soft to firm grey and black slightly gravelly grey sandy CLAY with occasional decomposed rootlets, paper and plastic bags, black organic pockets and a strong organic odour. Gravel is subangular to rounded fine to medium limestone and sandstone.		1.90							
		111.72 [0.15]	(Made Ground)		2.00							
		111.57 [0.05]	No recovery.		2.15							
		111.52	(Made Ground)		2.20							
			Soft to firm grey and black sandy CLAY with paper and plastic bag fragments and a light organic odour.									
			(Made Ground)									
			Hole Terminated at 2.20m bgl.									

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Strong becoming light organic odour between 1.90-2.20m. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

BOREHOLE LOG

Scale 1:20 Sheet 1 of 1

LOCATION ID					
DS219A	**Project Name:** Oxfordshire RFI			**Ground Level (m AOD):**	113.70
	Project Number: NTH2479 (Ardley Landfill)			**Eastings:**	454587.41
	Client: Oxfordshire RFI			**Northings:**	226183.86
Hole Type: WLS	**Rig:** Geotool FSX	**Start & End Date:**	16/11/2022	**Engineer:** MM	**Checker:**

Boring		Strata				Samples			In-Situ Tests			
Strike	Well	Level (m AOD) & (Thickness (m))	Description	Legend	Depth (m bgl)	Type (Ublows)	From (m)	To (m)	Type	Depth (m)	Result	Casing Depth & (Water Level)
		[0.10] 113.60 [0.30]	Soft to firm slightly gravelly grey sandy CLAY with many rootlets. (Topsoil)		0.10							
		113.30 [0.60]	Firm light brown and orangish brown slightly gravelly sandy CLAY. Gravel is subangular to rounded fine to coarse flint, limestone and brick. (Made Ground)		0.40							
			Firm light brown and light grey gravelly slightly sandy CLAY with rare cobble content of limestone. Gravel is subangular to rounded fine to coarse flint and limestone. (Made Ground)			D1	0.70	0.80				
		112.70 [0.40]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)		1.00							
		112.30 [0.20]	Light brown slightly sandy fine to coarse angular GRAVEL of limestone. (Made Ground)		1.40							
		112.10 [0.15]	Firm grey mottled light grey and brown slightly gravelly slightly sandy CLAY. Gravel is subangular to rounded fine to coarse limestone and sandstone. (Made Ground)		1.60	ES1	1.70	1.80				
		111.95 [0.25]	Soft to firm grey and black slightly gravelly grey sandy CLAY with occasional decomposed rootlets, with black organic pockets and strong organic odour. Gravel is subangular to rounded fine to medium limestone and sandstone. With occasional decomposed wood fragments, paper and plastic bag. (Made Ground)		1.75							
		111.70 [0.50]	No recovery (Made Ground)		2.00							
		111.20 [0.10]	Light brown clayey sandy fine to coarse angular GRAVEL of limestone. (Made Ground)		2.50							
		111.10	Hole Terminated at 2.60m bgl.		2.60							

Chiseling		
From (m bgl)	To (m bgl)	Time (hh:mm)

Water Added		
From (m bgl)	To (m bgl)	Volume (l)

Remarks

Reason for Termination:

Borehole terminated due to barrel obstruction on waste material.

Groundwater Remarks:

No groundwater encountered.

Other Remarks:

1. Strong organic odour between 1.75-2.00m.. 2. Borehole location backfilled with bentonite pellets and topsoil reinstated.

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Appendix 2 : Drillers' Logs

Daily Cable Percussive Drilling Record

NTH2479-BH04

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**30/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh04**	**Sheet:**	**1 of 1**

From	To	Soil Description
GL	0.30	TOPSOIL.
0.30	1.50	MADEGROUND (CLAY).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

,

(top to bottom) 0.5m of spoil, 1m of bento pellets,

Comments - Standing Time - Dayworks

hole stopped due to rig singing, hole re set up and hole restarted and lablelled 4A.

Total Standing Time

Total Dayworks

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
1.50							

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

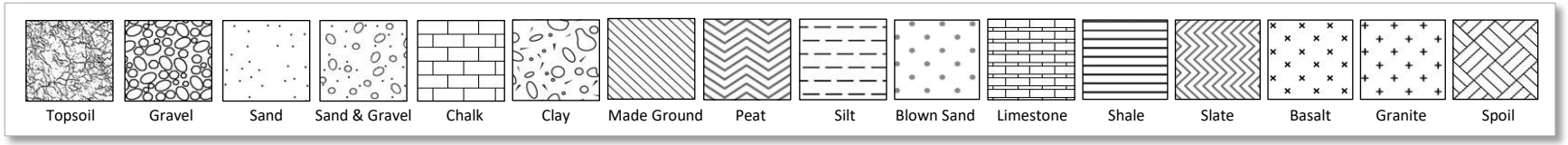
Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh04 -

	Legend	Depth (m)	Description	Ground Water	Samples						TESTS		Installs & Backfill
					D	B	E	W	U	P			
0												0	
0.2												0.2	
0.3		0 - 0.3	TOPSOIL.									0.3	
0.5												0.5	
0.6												0.6	
0.8												0.8	
0.9												0.9	
1.1												1.1	
1.2												1.2	
1.4												1.4	
1.5		0.3 - 1.5	MADEGROUND (CLAY).									1.5	



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Daily Cable Percussive Drilling Record

NTH2479-BH04A

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**30/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh04A**	**Sheet:**	**1 of 3**

From	To	Soil Description
GL	0.30	TOPSOIL.
0.30	1.50	MADEGROUND (CLAY).
1.50	6.00	MADEGROUND (Household waste).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
☐	B-1	0.50										
☐	D-1	0.60										
☐	B-2	1.50										
	CPT-1	1.50	1.95	1.50	dry	1	1	1	1	1	1	- 4 blows
☐	D-2	1.50	2.00									
	CPT-2	2.50	2.95	2.50	dry	1	1	2	1	2	1	- 6 blows
☐	D-3	2.50	3.00									
	CPT-3	3.50	3.95	3.50	dry	1	1	2	2	2	2	- 8 blows
☐	D-4	3.50	4.00									
	CPT-4	4.50	4.95	4.50	dry	1	2	2	2	2	3	- 9 blows
☐	D-5	4.50	5.00									
	CPT-5	5.50	5.89	5.50	dry	2	3	3	5	9	33	- 50 blows - 15mm Refusal Depth
☐	D-6	5.50	6.00									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		dry	
Water Level - End Boring:		dry	

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(TP) GL	1.20	1hrs 00m
(TP) GL	1.20	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	6.00	6.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 12:00 to 13:30 (1hr 30mins) - relocating equipment . Dayworks 14:30 to 15:30 (1hr) - resetting rig due to rig sinking .

Total Standing Time

Total Dayworks

2hrs 30m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
6.00	**6**		**2**				**5**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH04A

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**01/12/2022**
Project No:	**Nth2479**	**BH No:**	**bh04A**	**Sheet:**	**2 of 3**

From	To	Soil Description
6.00	8.50	MADEGROUND (Household waste).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	CPT-6	7.00	7.45	7.00	dry	2	3	3	2	5	15	- 25 blows
	D-7	7.50										

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	7.50	8.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecologist. Dayworks 14:00 to 14:45 (45mins) - skipping spoil.

Total Standing Time

Total Dayworks

6hrs 45m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
8.50	**7**		**2**				**6**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH04A

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**02/12/2022**
Project No:	**Nth2479**	**BH No:**	**bh04A**	**Sheet:**	**3 of 3**

From	To	Soil Description

Sampling & Testing													
Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes

Groundwater	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail		
From (m):	To (m):	Time (hrs):

Casing Record			
Size:	From (m):	To (m):	Total (m):
8"	GL	7.50	8.00

Water Added															
From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Totals for Completed Borehole							
Depth (m)	**D**	**ES**	**B**	**UT100**	**W**	**U100**	**SPT/CPT**
8.50	**7**		**2**				**6**

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecology. Dayworks 9:00 to 12:00 (3hrs) - stripping rig and replacing damaged bearing. Dayworks 13:00 to 15:00 (2hrs) - getting tooling and casing unstuck, Pair of overalls which were in the landfill were the issue.. Dayworks 15:00 to 16:00 (1hr) - pressure washing truck and tracked dumper.

Total Standing Time

Total Dayworks

6hrs 45m

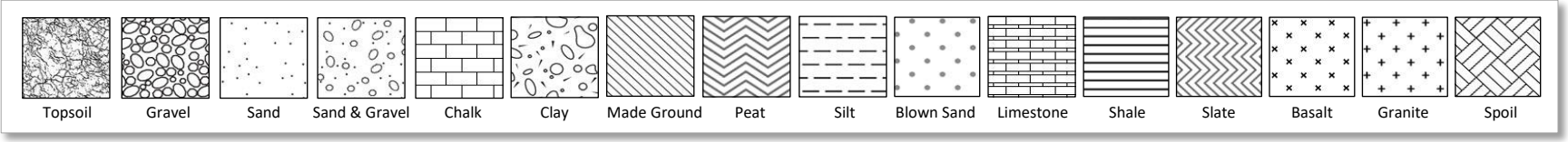
Plant Details	
Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh04A -

	Legend	Depth (m)	Description	Ground Water	Samples						TESTS		Installs & Backfill
					D	B	E	W	U	P			
0		0 - 0.3	TOPSOIL.									0	
0.9					D-1	B-1						0.9	
1.7		0.3 - 1.5	MADEGROUND (CLAY).			B-2						1.7	
2.6					D-2						CPT-1	2.6	
3.4					D-3						CPT-2	3.4	
4.3					D-4						CPT-3	4.3	
5.1					D-5						CPT-4	5.1	
6		1.5 - 6	MADEGROUND (Household waste).		D-6						CPT-5	6	
6.8												6.8	
7.7					D-7						CPT-6	7.7	
8.5		6 - 8.5	MADEGROUND (Household waste).									8.5	



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Daily Cable Percussive Drilling Record

NTH2479-BH05A

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**28/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh05A**	**Sheet:**	**1 of 2**

From	To	Soil Description
GL	0.20	TOPSOIL.
0.20	1.90	MADEGROUND (Soft brown gravelly CLAY. Gravel is limestone).
1.90	2.10	MADEGROUND (Soft grey CLAY).
2.10	5.00	MADEGROUND (Household waste, glass, paper, plastics, metal, wood and fabric).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	B-1	0.30										
	B-2	1.00										
	CPT-1	1.50	1.95	1.50	dry	1		1	U/W	1	1	- 3 blows
	B-3	1.50	1.80									
	B-4	1.90										
	B-5	2.10										
	CPT-2	2.50	2.95	2.50	dry	1	1	1	1	1	1	- 4 blows
	D-1	2.50	3.00									
	CPT-3	3.50	3.95	3.50	damp	1	U/W	U/W	1	U/W	1	- 2 blows
	D-2	3.50	4.00									
	CPT-4	4.50	4.95	4.50	damp	1	1	1	1	1	1	- 4 blows
	D-3	4.50	5.00									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(TP) GL	1.20	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 12:00 to 13:00 (1hr) - relocating rig.

Total Standing Time

Total Dayworks

1hrs 0m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
5.00	**3**		**5**				**4**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH05A

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**29/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh05A**	**Sheet:**	**2 of 2**

From	To	Soil Description
5.00	5.90	MADEGROUND (Household waste).
5.90	6.90	MADEGROUND (CLAY).with sandstone

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	CPT-5	5.50	6.39	5.50	dry	1	2	15	3	4	28	- 50 blows - 10mm Refusal Depth
	D-4	5.50	6.00									
	B-6	5.90	6.80									
	B-7	6.90										
	CPT-6	7.00	7.45	7.00	dry	1	1	1	2	2	1	- 6 blows
	D-5	7.00	7.50									
	CPT-7	8.50	8.95	8.00	5.20	1	1	1	2	2	2	- 7 blows
	D-6	8.50	9.00									
	CPT-8	9.00	9.45	8.50	5.00	10	10	15	4	3	2	- 24 blows
	B-8	9.10										
	CPT-9	10.00	10.45	8.50	5.00	2	3	4	4	4	3	- 15 blows
	D-7	10.00	10.50									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		4.80	
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

#1: 50mm pipe to 7.5m (2.0m solid & 5.5m slotted) + geosock,
4" Tophat cover. Methane tap installed,
(top to bottom) 2m of bento pellets, 0.2m of sand, 7.5m of gravel, 0.2m of sand, 0.6m of bento pellets,

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecologist. Dayworks 14:00 to 14:45 (45mins) - skipping spoil.

Total Standing Time

Total Dayworks

1hrs 30m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
10.50	**7**		**8**				**9**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

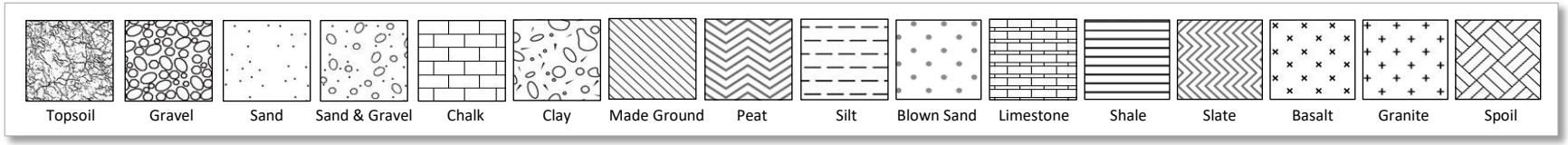
Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh05A -

	Legend	Depth (m)	Description	Ground Water	Samples D	Samples B	Samples E	Samples W	Samples U	Samples P	TESTS		Installs & Backfill
0		0 - 0.2	TOPSOIL.			B-1						0	
1.1						B-2						1.1	
2.1		0.2 - 1.9	MADEGROUND (Soft brown gravelly CLAY. Gravel is limestone).			B-3 B-4					CPT-1	2.1	
		1.9 - 2.1	MADEGROUND (Soft grey CLAY).			B-5							
3.2					D-1						CPT-2	3.2	
4.2					D-2						CPT-3	4.2	
5.3		2.1 - 5	MADEGROUND (Household waste, glass, paper, plastics, metal, wood and fabric).		D-3						CPT-4	5.3	
6.3		5 - 5.9	MADEGROUND (Household waste).		D-4						CPT-5	6.3	
7.4		5.9 - 6.9	MADEGROUND (CLAY).with sandstone		D-5	B-6 B-7					CPT-6	7.4	
8.4												8.4	
9.5					D-6	B-8					CPT-7 CPT-8	9.5	
11					D-7						CPT-9	11	



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Daily Cable Percussive Drilling Record

NTH2479-BH09

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**22/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**1 of 4**

From	To	Soil Description
GL	0.70	MADEGROUND (TOPSOIL).
0.70	1.80	MADEGROUND (Soft grey CLAY).
1.80	3.00	MADEGROUND (Household waste, carpet , plastic, paper and wood).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
☐	ES-1	0.30										
☐	D-1	0.40										
☐	B-1	0.50										
☐	ES-2	0.80										
☐	B-2	0.80										
☐	D-2	0.90										
☐	B-3	1.80										
	SPT-1	1.50	1.95	1.50	dry	1	2	2	2	5	2	- 11 blows
☐	D-3	1.50	1.95									- (sample from SPT-1)
	CPT-2	2.50	2.95	2.50	dry	2	2	3	5	5	1	- 14 blows
☐	D-4	2.50	3.00									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		/	
Water Level - End Boring:		dry	

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(TP) GL	1.20	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	3.00	3.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 9:00 to 10:30 (1hr 30mins) - site induction. Dayworks 10:30 to 11:00 (30mins) - ecology toolbox talk. Dayworks 11:00 to 12:00 (1hr) - rig set up. Dayworks 12:00 to 12:30 (30mins) - collecting plastic to set up rig. Dayworks 12:30 to 13:00 (30mins) - laying plastic. Dayworks 14:00 to 14:30 (30mins) - pulling window sample crew stuck truck. Dayworks 16:00 to 16:30 (30mins) - cleaning truck to access the road.

Total Standing Time

Total Dayworks

5hrs 0m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
3.00	**4**	**2**	**3**				**2**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH09

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**23/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**2 of 4**

From	To	Soil Description

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	3.00	3.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecologist. Dayworks 14:00 to 14:45 (45mins) - skipping spoil.

Total Standing Time

Total Dayworks

8hrs 0m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
3.00	**4**	**2**	**3**				**2**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH09

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**24/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**3 of 4**

From	To	Soil Description
3.00	4.20	MADEGROUND (Masonry, household waste, paper, plastics, metal, wood and fabric).
4.20	6.00	MADEGROUND (CLAY).
6.00	11.90	MADEGROUND (Concrete, masonry, household waste, brick fragments, paper,
		plastics, wood and fabric).

Groundwater

	#1	#2	#3
Time:	14:00		
Depth Struck:	10.30		
Casing Depth:	10.00		
Inflow Rate:	fast		
After 5 mins rose to:	8.60		
After 10 mins rose to:	8.40		
After 15 mins rose to:	8.40		
After 20 mins rose to:	8.40		
Depth Sealed:	/		
Sample No:	/		
Sample Depth:	/		
Water Level - Start Boring:	dry		
Water Level - End Boring:	8.40		

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	11.90	11.90

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecology. Dayworks 9:00 to 12:00 (3hrs) - stripping rig and replacing damaged bearing. Dayworks 13:00 to 15:00 (2hrs) - getting tooling and casing unstuck, Pair of overalls which were in the landfill were the issue.. Dayworks 15:00 to 16:00 (1hr) - pressure washing truck and tracked dumper.

Total Standing Time

Total Dayworks

1hrs 15m

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	CPT-3	3.50	3.95	3.50	dry	1	1	2	3	2	1	- 8 blows
	D-5	3.50	4.00									
	B-4	4.20										
	CPT-4	4.50	4.95	4.50	dry	1	1	1	1	2	2	- 6 blows
	D-6	4.50	5.00									
	CPT-5	5.50	5.95	5.50	dry	1	3	3	2	1	3	- 9 blows
	D-7	5.50	6.00									
	CPT-6	7.00	7.45	7.00	dry	U/W	1	1	2	3	5	- 11 blows
	D-8	7.00	7.50									
	B-5	7.50	8.00									
	SPT-7	8.50	8.95	8.50	dry	1	1	1	1	1	1	- 4 blows
	D-9	8.50	8.95									- (sample from SPT-7)
	CPT-8	10.00	10.45	10.00	dry	1	2	2	1	3	1	- 7 blows
	D-10	10.00	10.50									
	CPT-9	11.50	11.80	11.50	8.20	1	2	2	1	47		- 50 blows - 0mm Refusal Depth
	D-11	11.50	11.90									

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
11.90	**11**	**2**	**5**				**9**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH09

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**25/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**4 of 4**

From	To	Soil Description

Sampling & Testing													
Label	Type / No.	Depth (m)		Casing Depth	Water Depth	Seating Blows		Test Drive				Notes
		from	to			75	75	75	75	75	75	

Groundwater			
	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail		
From (m):	To (m):	Time (hrs):
(CH) 11.90	11.90	1hrs 00m

Casing Record			
Size:	From (m):	To (m):	Total (m):
8"	GL	11.90	11.90

Water Added															
From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Totals for Completed Borehole							
Depth (m)	**D**	**ES**	**B**	**UT100**	**W**	**U100**	**SPT/CPT**
11.90	**11**	**2**	**5**				**9**

Backfill/Standpipe Details

#1: 50mm pipe to 10.6m (1.6m solid & 9m slotted) + geosock,

4" Tophat coverMethane tap installed,

(top to bottom) 0.5m of concrete, 1.05m of bento pellets, 0.1m of sand, 8.95m of gravel, 0.1m of sand, 1.2m of bento pellets,

Comments - Standing Time - Dayworks

Dayworks 7:30 to 08:30 (1hr) - filling water bowser. Dayworks 8:30 to 09:00 (30mins) - awaiting ecology walkover . Dayworks 10:00 to 11:00 (1hr) - fetching install material. Dayworks 11:00 to 14:00 (3hrs) - installing well. Dayworks 14:00 to 15:30 (1hr 30mins) - moving rig to next position. Dayworks 15:30 to 16:30 (1hr) - laying plastic and setting up rig . Dayworks 16:30 to 17:00 (30mins) - cleaning dumper tracks and washing truck to make safe for road journey.

Total Standing Time

Total Dayworks

8hrs 30m

Plant Details	
Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details		
	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

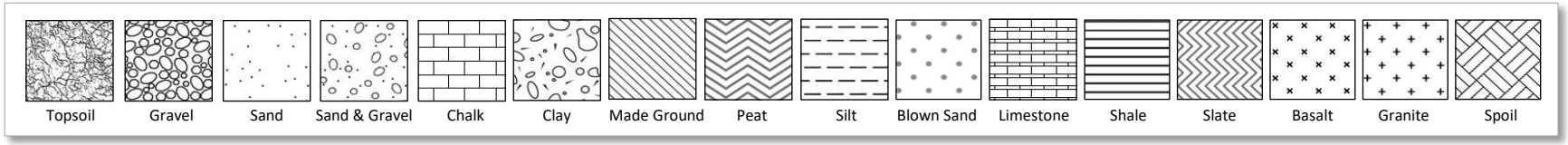
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Data Sheet for Borehole bh09 -

Depth (m)	Description	Ground Water	Samples D	Samples B	Samples E	Samples W	Samples U	Samples P	TESTS
0 - 0.7	MADEGROUND (TOPSOIL).		D-1	B-1	ES-1				
				B-2	ES-2				
			D-2						
0.7 - 1.8	MADEGROUND (Soft grey CLAY).			B-3					SPT-1
			D-3						
1.8 - 3	MADEGROUND (Household waste, carpet , plastic, paper and wood).		D-4						CPT-2
									CPT-3
3 - 4.2	MADEGROUND (Masonry, household waste, paper, plastics, metal, wood and fabric).		D-5	B-4					
			D-6						CPT-4
4.2 - 6	MADEGROUND (CLAY).		D-7						CPT-5
			D-8						CPT-6
				B-5					
			D-9						SPT-7
		10.3m	D-10						CPT-8
6 - 11.9	MADEGROUND (Concrete, masonry, household waste, brick fragments, paper, plastics, wood and fabric).	Unknown	D-11						CPT-9

Legend: 0, 1.2, 2.4, 3.6, 4.8, 6, 7.1, 8.3, 9.5, 11, 12

Installs & Backfill: 0, 1.2, 2.4, 3.6, 4.8, 6, 7.1, 8.3, 9.5, 11, 12



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Soft Ground Daily Drillers Log

Depth, m	Description of Strata	Sample/Test Type	Sample/Test No.	Depth, m From	Depth, m To	U Sample Blow	U Sample Rec	Standard Penetration Tests 75	75	Pen	75	75	75	75	Pen	Casing Depth,m	Water mBGL
	Start of Shift/Borehole																

Soft Ground Daily Drillers Log MOBS TO SITE

Depth, m	Description of Strata	Sample/Test Type	Sample/Test No.	Depth, m From	Depth, m To	U Sample Blow	U Sample Rec	Standard Penetration Tests 75	75	Pen	75	75	75	75	Pen	Casing Depth,m	Water mBGL
GL	Start of Shift/Borehole																
GL	GRASS GRASS	T	1	0.30	0.45											2.00	DRY
	DARK BROWN	B	2	0.40	0.50												
	SAND +	C	3	0.55	0.85												
	LIMESTONE	B	4	0.80	1.20												
	GRAVEL	S	5	1.20	1.65			3	4		4	4	5	5			
	50% SAND	B	6	1.20	1.70												W
		S	7	2.5				50	NR							1.50	
		B	8	2.80	3.00												
4.5	GREY SILTY CLAY	S	9	3.50	3.95			10	11		10	5	5	2		5.0	
	LIMESTONE	B	10	3.50	4.0												
	NODES	S	11	4.50	4.75			2	3		5	5	7	5		4.50	
		B	12	4.50	5.0												
12.	PUBLIC BAGS	S	13	5.50	5.95			8	7		5	4	3	3			
	WASTE	B	14	5.50	6.0												
		S	15	6.2				50	NR								
		B	16	6.5	7												
12.	LIMESTONE	S	17	7.4				25	30	5	12						
		B	18	7.20	7.5												

End of Shift Borehole (complete/incomplete)

KEY U-Undisturbed NR-No recovery S-SPT C-SPT Solid cone P-Piston sample B-Bulk disturbed D-Disturbed tub W-Water ES-Environmental sample
Pen-Penetration for last increment (mm) L-Liner

Casing Depth,m	Water mBGL
2.00	DRY
	W
1.50	
5.0	W
5.0	
5.80	
5.0	
5.0	
4.80	
4.80	
4.50	

CHISELLING From,m	To,m	Time, h
6.50	7.80	2 HR

WATER ENCOUNTERED	1	2	3
Time struck			
Depth struck, m	5.0		
Casing depth, m	5.0		
Depth 5min, m	5.80		
Depth 10min, m	4.80		
Depth 15min, m	4.80		
Depth 20min, m	4.80		
Sample Y/N			
Sealed, m			

WATER ADDED	From, m	To, m
Depth, m		
Depth, m		
Depth, m		

BH DIAMETER From, m	To, m	Diam, mm

ADDITIONAL PLANT

INSPECTION PIT DIMENSIONS: 1.20 HD

BACKFILL/ INSTALLATION (sketch including pipe dia etc)

REMARKS (Inspection Pit/Moves/Standing/Dayworks details, etc) From (time)	To (time)	Details
9AM	10AM	STANDING WAITING TO GET ONTO SITE FROM CLIENT

Drilling Company: ISHS
Crew Names: ROB / DJ / MW
Rig Type: 1 DANDO 1600
Driller's Signature: [redacted]
Date: 16/4/22
Start Time:
End Time:
B.H.I.D.: 07
WEATHER: Overcast / Sunny / Rain / Snow

S/C	D	B	U	W	ES	P	L

Contract Name: A14 - RFI
Contract No. NTH24-74

[redacted]

NTH2479

Thu 17 Nov at 16:57

Text you in 1 hour

Thu 17 Nov at 18:08

6.10-7.60m 3 bags and 1/6 bag

5.90-6.10m half sand bag

2.10-5.90m 9 bags of gravel

1.80-2.10m half bag (1 sand bag completed) + 1/5 second sand bag

0.50-2.10 2 bentonite bags + 5/6 previous bento bag

Tot: 5 bentonite bag

9 gravel bags

1 bag + 1/5 sand bag

Monday 07:57

Morning [redacted]

Your rig has been picked up.

Could you pleasr send over all last week logs when convenient?

Regards

Text Message

Borehole Solutions Limited on behalf of bwb — Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details: No	Type	Insitu test	From (m)	To (m)	U Sample: Blows	Sample Dia (mm)	Total Sample Recovery (m)	Standard Penetration Test: Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
0.00	TOPSOIL	1	B		0.10	0.30															
		3	D		0.50	0.60															
		2	B		0.60	1.00															
0.10	Firm brown gravelly CLAY occasional brick and concrete	4	D		0.80	0.90															
				C	1.20	1.65				0	1	1	150	1	1	1	1	300	4	0.00	Dry
		5	D		1.50	1.60															
0.60	becoming sandy	6	B		1.50	1.80															
				C	2.00	2.45				0	1	1	150	1	1	2	1	300	5	1.50	Dry
		7	B		2.50	3.00															
1.40	landfill	8	D		2.70	2.80															
				S	3.00	3.45				0	1	1	150	1	1	1	1	300	4	1.50	Dry
		9	D		3.00	3.45															
		10	B		3.50	4.00															
				C	4.00	4.45				0	5	6	150	20	11	5	4	300	40	1.50	Dry

Shift details

Start time (hhmm)	Hole (m)	Water (m)	Casing (m)
0820			
Finish time (hhmm)	**Hole (m)**	**Water (m)**	**Casing (m)**
1505	6.50	6.00	6.00

Casing / Hole Detail

Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)

Chiselling

Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)

Water Added

From (m)	To (m)

Ground Water Record

Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)
1405	6.30	4.50	Medium	6.20	6.00	5.80	5.70	N/S

Backfill (m)

Type	From (m)	To (m)

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0820		CAT Scanned: Yes
0820		Permit Completed: Yes
0820	0020	Standing: Induction
0840	0040	waiting for dumper to towrig to location
0940	0020	Dayworks: Moving rig to borehole position
1030	0100	Dayworks: inspection pit

SPT I.D. Number	ML1	**Calibration Date**	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	**SPT Energy Ratio**	80.00
Drilling Crew Details			**CSCS/NVQ No**
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	**Project No**	nth2479
Date	01/12/2022	**Day**	Thursday
Rig type	**Fraste Multidrill ML FS500**	**Borehole Number**	
			bh01
Sheet	1 of 3	**Completed**	Y

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
				C	5.00	5.45				0	2	3	150	4	4	3	4	300	15	5.00	4.00
8.00	greenish grey CLAY	11	B		6.00	6.50															
				C	6.50	6.95				0	4	6	150	6	4	5	5	300	20	6.00	6.00
				C	8.00	8.40				0	3	3	150	4	10	20	16	250		8.00	Dry
		12	D		8.20	8.30															
				C	8.30	8.34				0	25	-	20	50	-	-	-	23		8.00	Dry

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0730	8.30	Dry	8.00					8.20	8.30	1330	0100														
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)																						
1600	8.30	Dry	8.00																						

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
1330	0100	Chiselling: rock
		General; bent and damaged cutter due to ground conditions
		General; 8inch cali chisel collected to chisel on rock

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	Project No	nth2479
Date	02/12/2022	Day	Friday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh01
Sheet	2 of 3	Completed	Y

Borehole Solutions Limited

on behalf of **bwb**

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test												
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
8.30	limestone	13	D		8.40	8.40															

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0730	8.30	Dry	8.00					8.30	8.40	0820	0100												Bentonite Pellets	8.40	7.40
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)																					
0825																								

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0820	0100	Chiselling: limestone
0900	0015	Dayworks: collecting water
1000	0015	Dayworks: collecting water
1000	0200	Dayworks: Reinstating and installing upright cover

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	Project No	nth2479
Date	03/12/2022	Day	Saturday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh01
Sheet	3 of 3	Completed	Y

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
0.00	TOPSOIL	1	B		0.20	0.50															
		2	D		0.30	0.40															
		3	B		1.00	1.50															
0.20	brown CLAY			C	2.00	2.45				0	1	2	150	2	4	4	4	300	14	2.00	Dry
				C	3.00	3.45				0	2	3	150	3	4	5	5	300	17	2.00	Dry
		4	D		3.00	3.10															
1.00	landfill			C	4.00	4.45				0	2	3	150	3	3	2	3	300	11	4.00	3.50
		5	B		4.00	4.50															
				C	5.00	5.45				0	2	3	150	4	4	3	4	300	15	4.50	Dry
				C	6.50	6.89				0	5	4	150	4	5	22	19	241		6.00	Dry

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0800				H	200	0.00	7.00	0.90	1.40	1010	0100	2.00	7.50	1200	3.00	2.00	Medium	2.60	2.45	2.45	2.45	4.00			
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	C	200	0.00	7.00							1430	5.90	5.50	Medium	5.80	5.70	5.70	5.70	6.50			
1950	6.70	Dry	6.50																						

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0800		CAT Scanned: Yes
0800		Permit Completed: Yes
0800	0020	taking all samples to compound
0900	0020	reoving rubbish from site
0930	0020	Dayworks: Moving rig to borehole position
1010	0100	Chiselling: concrete
0950	0019	Dayworks: inspection pit

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	Project No	nth2479
Date	07/12/2022	Day	Wednesday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh2
Sheet	1 of 2	Completed	Y

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
				C	6.90	7.00				0	25	-	55	50	-	-	-	44		6.80	Dry
6.80	limestone	6	D		6.90	7.00															

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0800	6.70	Dry	6.50					6.80	7.00	0830	0100												Bentonite Granules	7.00	6.00
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)																					
2015																								

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0830	0100	Chiselling: limestone
0930	0052	waiting for install instructions
1115	0200	Dayworks: Reinstating and installing upright cover, bagging all spoil and removing

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	Project No	nth2479
Date	08/12/2022	Day	Thursday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh2
Sheet	2 of 2	Completed	Y

Borehole Solutions Limited on behalf of bwb — Cable Percussion Drilling Log

BOREHOLE SOLUTIONS LIMITED

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details: No	Type	Insitu test	From (m)	To (m)	U Sample: Blows	Sample Dia (mm)	Total Sample Recovery (m)	Standard Penetration Test: Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
0.00	topsoilgrass			S	1.20	1.65				0	2	4	150	4	4	5	5	300	18	1.00	Dry
		1	D		1.20	1.65															
				S	2.00	2.45				0	3	3	150	3	3	2	1	300	9	2.00	Dry
0.30	brown green sabdy clay with brick	2	D		2.00	2.45															
				S	3.00	3.45				0	3	2	150	2	2	8	3	300	15	3.00	Dry
		3	D		3.00	3.45															
2.40	dark black grey plastic metal bits of clay cloths paper strong smell			S	4.00	4.45				0	4	2	150	9	11	1	2	300	23	4.00	Dry
		4	D		4.00	4.45															
				S	5.00	5.45				0	3	3	150	2	2	2	2	300	8	5.00	4.30
		5	D		5.00	5.45															
				S	6.50	6.95				0	2	5	150	4	2	5	5	300	16	6.50	5.80
		6	D		6.50	6.95															

Shift details

Start time (hhmm)	Hole (m)	Water (m)	Casing (m)
0800			
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)
1850	7.00	5.80	6.00

Casing / Hole Detail

Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)
C	200	0.00	6.00

Chiselling

Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)

Water Added

From (m)	To (m)

Ground Water Record

Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)
1245	5.00	4.50	Slow	4.30	4.20	4.20	4.00	N/S

Backfill (m)

Type	From (m)	To (m)

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0800		CAT Scanned: Yes
0800		Permit Completed: Yes
0800	0230	waiting to gain acces to bh location and ecologist to agree route to bh location
1100	0100	handpit 1.2
1245	0100	finding hydrant to fill bowser
1500	0020	taking spoil to skip

SPT I.D. Number	fcx	Calibration Date	19/12/2018
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	64.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		13445525
Lead Driller	[redacted]		6382082
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

ardley fields

Weather	Snow	Project No	1463
Date	16/12/2022	Day	Friday
Rig type	Dando 3000	Borehole Number	
			bh03
Sheet	1 of 2	Completed	Y

AGS

Produced by KeyLogbook

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

BOREHOLE SOLUTIONS LIMITED

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
				S	7.80	8.18				0	6	7	150	7	15	28	0	225		7.50	7.00
7.50	brown green clay bits of limestone	7	D		7.80	8.18															
7.80	limestone																				

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0800	7.00	4.30	7.00	C	200	0.00	7.50	7.50	7.80	0815	0100												Bentonite Granules	7.80	7.00
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	H	200	0.00	7.80																Gravel	7.00	6.60
1410																									

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0815	0100	Chiselling: limestone
0910	0230	install pipe and pull casing dip evertime bag of gravel or sand or beto goes down the hole for install
1210	0045	cleaning up and bagging spoil

SPT I.D. Number	fcx	Calibration Date	19/12/2018
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	64.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		13445525
Lead Driller	[redacted]		6382082
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

ardley fields

Weather	Snow	Project No	1463
Date	17/12/2022	Day	Saturday
Rig type	Dando 3000	Borehole Number	
			bh03
Sheet	2 of 2	Completed	Y

AGS

Produced by KeyLogbook

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
1200																									
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)																						
1510	0.00																								

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
1200		CAT Scanned: Yes
1200		Permit Completed: Yes
1200	0025	Dayworks: Moving rig to borehole position

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details		CSCS/NVQ No	
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	Project No	nth2479
Date	03/12/2022	Day	Saturday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh8
Sheet	1 of 3	Completed	Y

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
0.00	TOPSOIL	1	B		0.20	0.50															
		2	B		1.00	1.50															
		3	B		2.00	2.50															
0.20	brown gravelly CLAY	4	B		3.00	3.50															
		5	B		4.00	4.50															
		6	B		5.00	5.50															
1.40	landfill																				

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0730	0.00							2.00	2.50	1000	0100														
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)																						
1615	5.50	Dry	5.00																						

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0800	0100	Dayworks: inspection pit
1000	0100	Chiselling: concrete
1115	0015	Dayworks: collecting water
1310	0015	Dayworks: collecting water

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Sunny	Project No	nth2479
Date	05/12/2022	Day	Monday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh8
Sheet	2 of 3	Completed	Y

Borehole Solutions Limited on behalf of bwb

Cable Percussion Drilling Log

Depth to stratum top (m)	Driller's Stratum Description	Sample / Test Details					U Sample			Standard Penetration Test											
		No	Type	Insitu test	From (m)	To (m)	Blows	Sample Dia (mm)	Total Sample Recovery (m)	Self Weight Pen (mm)	75 mm	150 mm	Seating Pen (mm)	75 mm	150 mm	225 mm	300 mm	Main Pen (mm)	N value	Casing Depth (m)	Water level (m)
7.30	limestone	7	D		0.30	0.40															
		8	D		1.10	1.20															
				C	1.20	1.65				0	2	2	150	2	2	1	2	300	7	1.20	Dry
				C	2.00	2.34				0	3	4	150	19	20	11	-	185		2.00	Dry
		9	D		2.30	2.40															
				C	3.00	3.45				0	2	2	150	3	3	2	3	300	11	3.00	Dry
		10	D		3.30	3.40															
				C	4.00	4.45				0	1	2	150	2	3	4	3	300	12	4.00	Dry
				C	5.00	5.45				0	2	3	150	3	3	4	5	300	15	5.00	Dry
				C	6.50	6.95				0	2	3	150	4	5	6	6	300	21	6.00	Dry
		11	D		7.40	7.50															
				C	7.50	7.72				0	4	8	150	50	-	-	-	70		7.00	Dry

Shift details				Casing / Hole Detail				Chiselling				Water Added		Ground Water Record								Backfill (m)		
Start time (hhmm)	Hole (m)	Water (m)	Casing (m)	Casing (C) Hole (H)	Dia (mm)	From (m)	To (m)	Depth from (m)	Depth To (m)	Time From (hhmm)	Duration (hhmm)	From (m)	To (m)	Time of strike	Depth Struck (m)	Casing (m)	Inflow	5 min	10 min	15 min	20 min	Depth Sealed (m)	Type	From (m)	To (m)
0730	5.80	5.50	5.00	H	200	0.00	7.50	7.30	7.50	1300	0100			1025	6.00	5.75	Medium	5.90	5.80	5.75	5.75	7.00	Bentonite Pellets	7.50	6.50
Finish time (hhmm)	Hole (m)	Water (m)	Casing (m)	C	200	0.00	7.50																		
1930																									

Time from	Duration (hhmm)	Remarks or details of any additional testing information, Dayworks
0820	0119	filling bowser with hydrant gear
1300	0100	Chiselling: limestone
1400	0030	Dayworks: Bagging all spoil Removing all spoil to skip
1450	0110	Dayworks: Reinstating and installing upright cover

SPT I.D. Number	ML1	Calibration Date	10/07/2022
SPT Rod Type	1 ½ Whitworth SPT	SPT Energy Ratio	80.00
Drilling Crew Details			CSCS/NVQ No
Support Operative	[redacted]		5398637
Lead Driller	[redacted]		5638475
Site category	Green		
Project Engineer	.		
Lead Drillers signature.			

Project Title

oxfordshire rfi

Weather	Freezing	Project No	nth2479
Date	06/12/2022	Day	Tuesday
Rig type	Fraste Multidrill ML FS500	Borehole Number	
			bh8
Sheet	3 of 3	Completed	Y

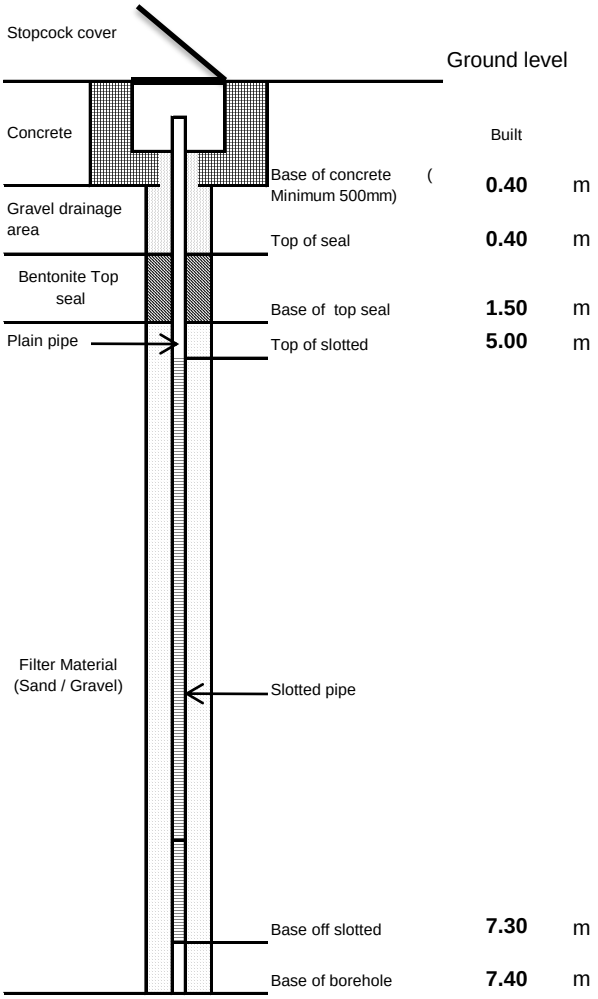
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Borehole Solutions Limited

Summary of Standpipe Installation

Schematic Diagram (not to scale)



Installation Details

Standpipe diameter (id)	50	mm
Borehole diameter	200	mm
Slot size	1	mm
Geosock	Yes	
Gas tap	Single	
Filter type	Gravel	
Type of cover	Upright with lock	
Initial reading	6.00	m
Time of Initial reading	1310	hhmm

	Base (m)	Top (m)
Concrete	0.40	GL
Gravel drainage	0.40	0.40
Borehole seal top	1.50	0.40
Filter zone	7.40	1.50
Plain pipe	5.00	GL
Slotted zone	7.30	5.00
Base of borehole	7.40	

Remarks

install materis supplied by borehole solutions

Rig type	Fraste Multidrill ML FS500	**Project Title**			
Drilling Crew Details		oxfordshire rfi			
Support Operative	[redacted]				
Lead Driller	[redacted]	**Project No**		nth2479	
Site category	Green	**Day**	Saturday	**Date**	December 3, 2022
Engineer	.			**Borehole Number**	
Lead Driller's signature				**bh01**	

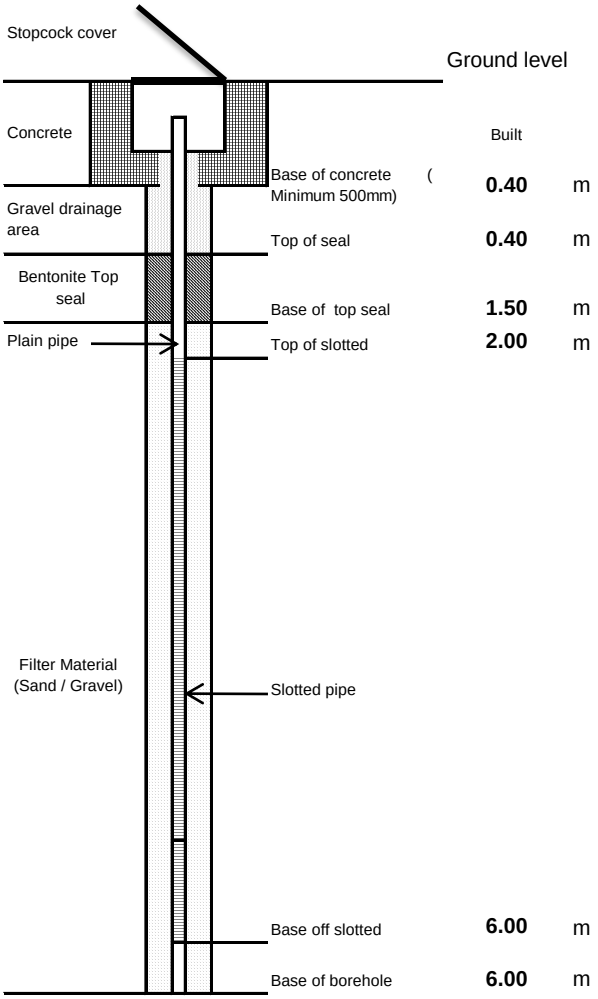
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Borehole Solutions Limited

Summary of Standpipe Installation

Schematic Diagram (not to scale)



Installation Details

Standpipe diameter (id)	50	mm
Borehole diameter	200	mm
Slot size	1	mm
Geosock	Yes	
Gas tap	Single	
Filter type	Gravel	
Type of cover	Upright with lock	
Initial reading	3.00	m
Time of Initial reading	1210	hhmm

	Base (m)	Top (m)
Concrete	0.40	GL
Gravel drainage	0.40	0.40
Borehole seal top	1.50	0.40
Filter zone	6.00	1.50
Plain pipe	2.00	GL
Slotted zone	6.00	2.00
Base of borehole	6.00	

Remarks

supplied by borehole solutions

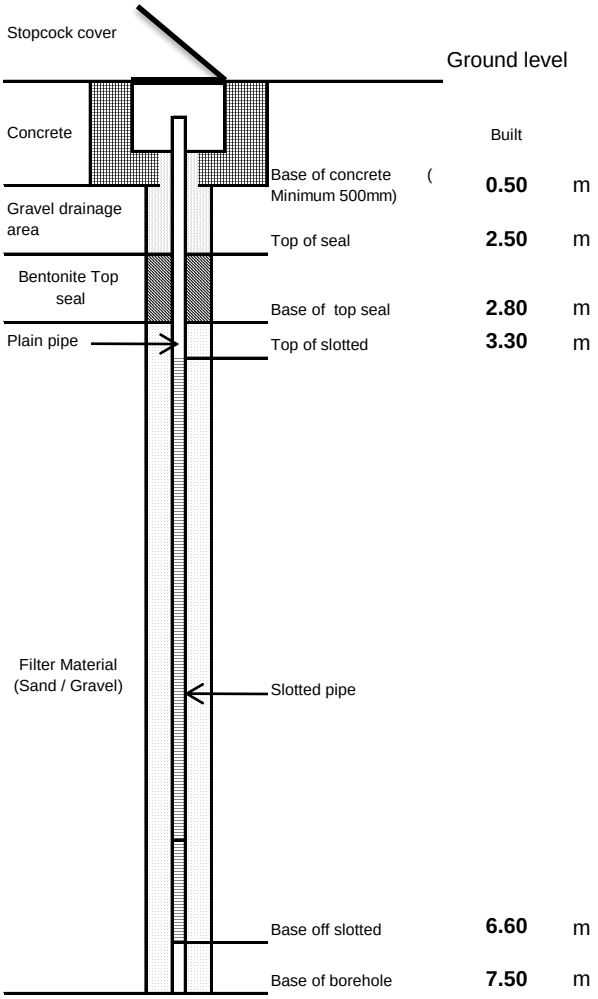
Rig type	Fraste Multidrill ML FS500	**Project Title**			
Drilling Crew Details		oxfordshire rfi			
Support Operative	[redacted]				
Lead Driller	[redacted]	**Project No**		nth2479	
Site category	Green	**Day**	Thursday	**Date**	December 8, 2022
Engineer	.			**Borehole Number**	
Lead Driller's signature				**bh2**	

AGS

Borehole Solutions Limited

Summary of Standpipe Installation

Schematic Diagram (not to scale)



Installation Details

Standpipe diameter (id)	50	mm
Borehole diameter	200	mm
Slot size	50	mm
Geosock	Yes	
Gas tap	Single	
Filter type	to 2.8 to 2.6 sand	
Type of cover	Upright with lock	
Initial reading	5.80	m
Time of Initial reading	1305	hhmm

	Base (m)	Top (m)
Concrete	0.50	GL
Gravel drainage	2.50	0.50
Borehole seal top	2.80	2.50
Filter zone	7.50	2.80
Plain pipe	3.30	GL
Slotted zone	6.60	3.30
Base of borehole	7.50	

Remarks

borehole supplied install

Rig type	Dando 3000	**Project Title**			
Drilling Crew Details		ardley fields			
Support Operative	[redacted]				
Lead Driller	[redacted]	**Project No**		1463	
Site category	Green	**Day**	Saturday	**Date**	December 17, 2022
Engineer	.			**Borehole Number**	
Lead Driller's signature				**bh03**	

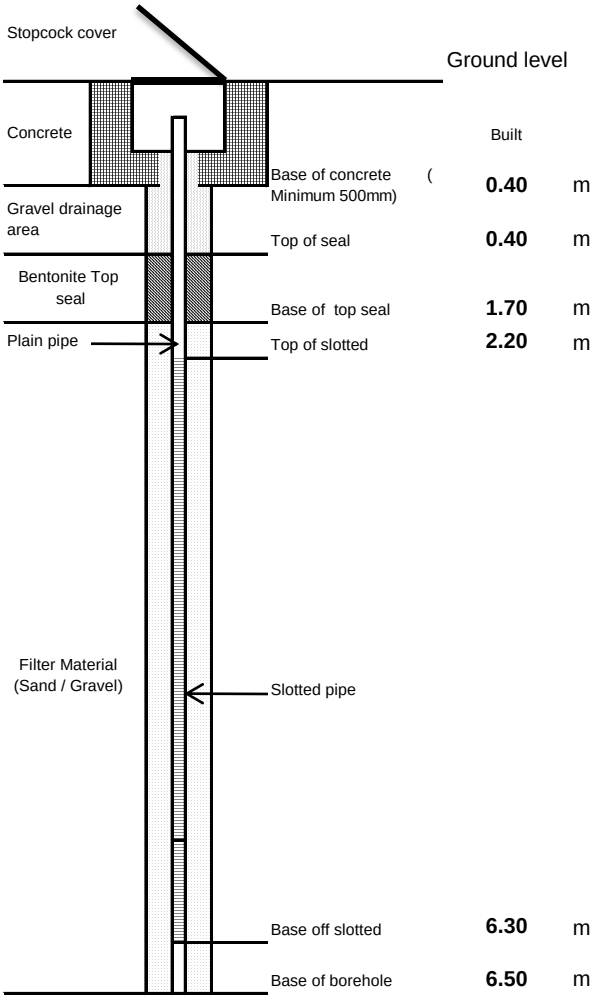
AGS

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Borehole Solutions Limited

Summary of Standpipe Installation

Schematic Diagram (not to scale)



Installation Details

Standpipe diameter (id)	50	mm
Borehole diameter	200	mm
Slot size	1	mm
Geosock	Yes	
Gas tap	Single	
Filter type	Gravel	
Type of cover	Upright with lock	
Initial reading	5.50	m
Time of Initial reading	1630	hhmm

	Base (m)	Top (m)
Concrete	0.40	GL
Gravel drainage	0.40	0.40
Borehole seal top	1.70	0.40
Filter zone	6.50	1.70
Plain pipe	2.20	GL
Slotted zone	6.30	2.20
Base of borehole	6.50	

Remarks

supplied by borehole solutions

Rig type	Fraste Multidrill ML FS500	**Project Title**			
Drilling Crew Details		oxfordshire rfi			
Support Operative	[redacted]				
Lead Driller	[redacted]	**Project No**		nth2479	
Site category	Green	**Day**	Tuesday	**Date**	December 6, 2022
Engineer	.			**Borehole Number**	
Lead Driller's signature				**bh8**	

AGS

Produced by KeyLogbook

Daily Cable Percussive Drilling Record

NTH2479-BH04

Mobile: [redacted]@bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**30/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh04**	**Sheet:**	**1 of 1**

From	To	Soil Description
GL	0.30	TOPSOIL.
0.30	1.50	MADEGROUND (CLAY).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

,

(top to bottom) 0.5m of spoil, 1m of bento pellets,

Comments - Standing Time - Dayworks

hole stopped due to rig singing, hole re set up and hole restarted and lablelled 4A.

Total Standing Time

Total Dayworks

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
1.50							

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

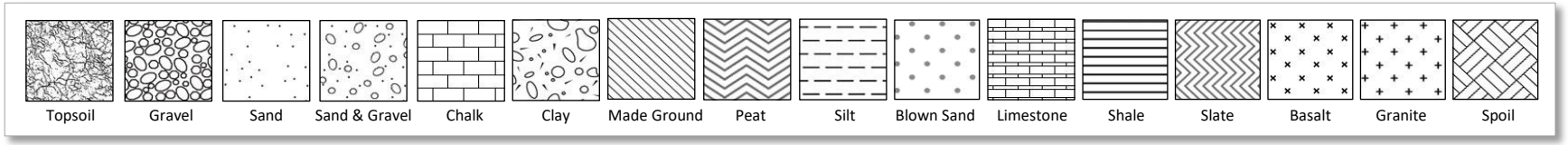
Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh04 -

	Legend	Depth (m)	Description	Ground Water	Samples						TESTS		Installs & Backfill
					D	B	E	W	U	P			
0												0	
0.2												0.2	
0.3		0 - 0.3	TOPSOIL.									0.3	
0.5												0.5	
0.6												0.6	
0.8												0.8	
0.9												0.9	
1.1												1.1	
1.2												1.2	
1.4												1.4	
1.5		0.3 - 1.5	MADEGROUND (CLAY).									1.5	



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Daily Cable Percussive Drilling Record

NTH2479-BH04A

Mobile: [redacted]@bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**05/12/2022**
Project No:	**Nth2479**	**BH No:**	**bh04A**	**Sheet:**	**4 of 4**

From	To	Soil Description
7.50	8.70	MADEGROUND.
8.70		SANDSTONE.

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		5.00	
Water Level - End Boring:		5.00	

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(CH) 8.70	8.70	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	7.50	8.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

#1: 50mm pipe to 7.5m (2.3m solid & 5.2m slotted) + geosock,

4" Tophat cover. Methane tap installed,

(top to bottom) 0.5m of concrete, 1.88m of bento pellets, 0.2m of sand, 5.2m of gravel, 0.2m of sand, 0.9m of bento pellets,

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:30 (30mins) - awaiting ecology. Dayworks 11:00 to 11:30 (30mins) - fectching install equipment . Dayworks 14:00 to 17:00 (3hrs) - dropping rig, cleaning position, concreting top hats, skipping spoil, cleaning truck and rig.

Total Standing Time

Total Dayworks

4hrs 0m

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	CPT-7	8.50	8.88	8.50	6.00	2	3	3	5	27	15	- 50 blows - 0mm Refusal Depth
	D-8	8.50	8.70									
	CPT-8	8.70	8.78	8.50	5.00	25		50				- 50 blows - 0mm Refusal Depth

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
8.88	**8**		**2**				**8**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

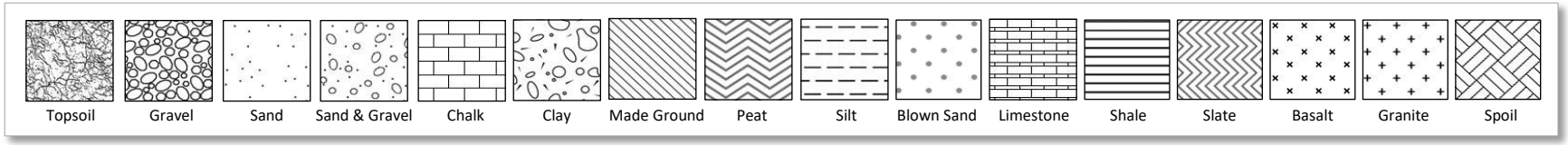
Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh04A -

	Legend	Depth (m)	Description	Ground Water	Samples D	Samples B	Samples E	Samples W	Samples U	Samples P	TESTS		Installs & Backfill
0		0 - 0.3	TOPSOIL.		D-1	B-1						0	
0.9		0.3 - 1.5	MADEGROUND (CLAY).			B-2						0.9	
1.8					D-2						CPT-1	1.8	
2.7					D-3						CPT-2	2.7	
3.6					D-4						CPT-3	3.6	
4.4					D-5						CPT-4	4.4	
5.3		1.5 - 6	MADEGROUND (Household waste).		D-6						CPT-5	5.3	
6.2												6.2	
7.1					D-7						CPT-6	7.1	
8												8	
8.9		6 - 8.5	MADEGROUND (Household waste).		D-8						CPT-8	8.9	
		7.5 - 8.7	MADEGROUND.								CPT-7		



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Daily Cable Percussive Drilling Record

NTH2479-BH05

Mobile: [redacted] bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**28/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh05**	**Sheet:**	**1 of 1**

From	To	Soil Description
GL	0.30	TOPSOIL.
0.30	2.00	Stiff brown cream very gravelly CLAY. Gravel is sandstone.
2.00		SANDSTONE.

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
☐	B-1	0.30										
☐	D-1	0.30										
☐	B-2	1.00										
☐	D-2	1.00										
	CPT-1	1.20	1.59		dry	1	3	3	16	19	12	- 50 blows - 15mm Refusal Depth
	CPT-2	2.00	2.30	1.50	dry	5	9	12	17	21		- 50 blows - 0mm Refusal Depth
☐	B-3	2.00										

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		dry	
Water Level - End Boring:		dry	

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(TP) GL	1.20	1hrs 00m
(CH) 2.00	2.00	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	1.50	2.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

,

(top to bottom) 0.3m of spoil, 2m of bento pellets,

Comments - Standing Time - Dayworks

Total Standing Time

Total Dayworks

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
2.30	**2**		**3**				**2**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

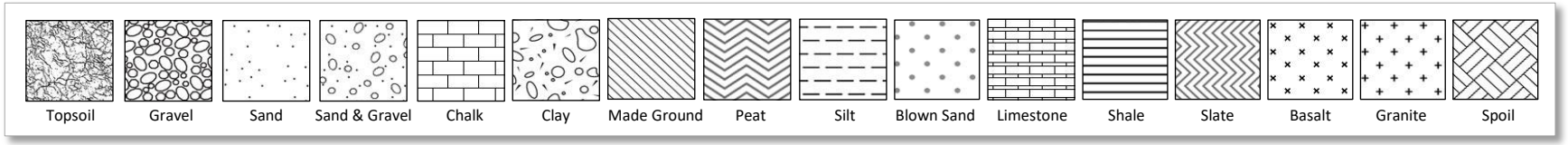
Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh05 -

	Legend	Depth (m)	Description	Ground Water	Samples D	Samples B	Samples E	Samples W	Samples U	Samples P	TESTS		Installs & Backfill
0												0	
0.2		0 - 0.3	TOPSOIL.		D-1	B-1						0.2	
0.5												0.5	
0.7												0.7	
0.9												0.9	
1.2					D-2	B-2						1.2	
1.4												1.4	
1.6											CPT-1	1.6	
1.8												1.8	
2.1		0.3 - 2	Stiff brown cream very gravelly CLAY. Gravel is sandstone.			B-3						2.1	
2.3											CPT-2	2.3	



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Daily Cable Percussive Drilling Record

NTH2479-BH05A

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**28/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh05A**	**Sheet:**	**1 of 2**

Mobile: [redacted] bowmandrilling.co.uk

From	To	Soil Description
GL	0.20	TOPSOIL.
0.20	1.90	MADEGROUND (Soft brown gravelly CLAY. Gravel is limestone).
1.90	2.10	MADEGROUND (Soft grey CLAY).
2.10	5.00	MADEGROUND (Household waste, glass, paper, plastics, metal, wood and fabric).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
☐	B-1	0.30										
☐	B-2	1.00										
	CPT-1	1.50	1.95	1.50	dry	1		1	U/W	1	1	- 3 blows
☐	B-3	1.50	1.80									
☐	B-4	1.90										
☐	B-5	2.10										
	CPT-2	2.50	2.95	2.50	dry	1	1	1	1	1	1	- 4 blows
☐	D-1	2.50	3.00									
	CPT-3	3.50	3.95	3.50	damp	1	U/W	U/W	1	U/W	1	- 2 blows
☐	D-2	3.50	4.00									
	CPT-4	4.50	4.95	4.50	damp	1	1	1	1	1	1	- 4 blows
☐	D-3	4.50	5.00									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(TP) GL	1.20	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 12:00 to 13:00 (1hr) - relocating rig.

Total Standing Time

Total Dayworks **1hrs 0m**

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
5.00	**3**		**5**				**4**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH05A

Mobile: [redacted]@bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**29/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh05A**	**Sheet:**	**2 of 2**

From	To	Soil Description
5.00	5.90	MADEGROUND (Household waste).
5.90	6.90	MADEGROUND (CLAY).with sandstone

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	CPT-5	5.50	6.39	5.50	dry	1	2	15	3	4	28	- 50 blows - 10mm Refusal Depth
	D-4	5.50	6.00									
	B-6	5.90	6.80									
	B-7	6.90										
	CPT-6	7.00	7.45	7.00	dry	1	1	1	2	2	1	- 6 blows
	D-5	7.00	7.50									
	CPT-7	8.50	8.95	8.00	5.20	1	1	1	2	2	2	- 7 blows
	D-6	8.50	9.00									
	CPT-8	9.00	9.45	8.50	5.00	10	10	15	4	3	2	- 24 blows
	B-8	9.10										
	CPT-9	10.00	10.45	8.50	5.00	2	3	4	4	4	3	- 15 blows
	D-7	10.00	10.50									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		4.80	
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

#1: 50mm pipe to 7.5m (2.0m solid & 5.5m slotted) + geosock,

4" Tophat cover. Methane tap installed,

(top to bottom) 2m of bento pellets, 0.2m of sand, 7.5m of gravel, 0.2m of sand, 0.6m of bento pellets,

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecologist. Dayworks 14:00 to 14:45 (45mins) - skipping spoil.

Total Standing Time

Total Dayworks

1hrs 30m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
10.50	**7**		**8**				**9**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

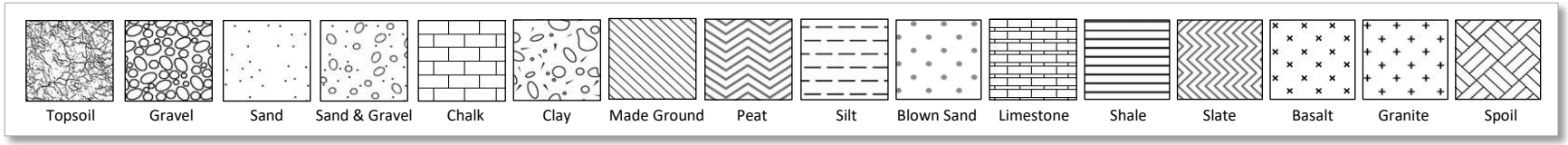
Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Data Sheet for Borehole bh05A -

	Legend	Depth (m)	Description	Ground Water	Samples D	Samples B	Samples E	Samples W	Samples U	Samples P	TESTS		Installs & Backfill
0		0 - 0.2	TOPSOIL.			B-1						0	
1.1						B-2						1.1	
2.1		0.2 - 1.9	MADEGROUND (Soft brown gravelly CLAY. Gravel is limestone).			B-3 B-4					CPT-1	2.1	
		1.9 - 2.1	MADEGROUND (Soft grey CLAY).			B-5							
3.2					D-1						CPT-2	3.2	
4.2					D-2						CPT-3	4.2	
5.3		2.1 - 5	MADEGROUND (Household waste, glass, paper, plastics, metal, wood and fabric).		D-3						CPT-4	5.3	
6.3		5 - 5.9	MADEGROUND (Household waste).		D-4						CPT-5	6.3	
7.4		5.9 - 6.9	MADEGROUND (CLAY).with sandstone		D-5	B-6 B-7					CPT-6	7.4	
8.4												8.4	
9.5					D-6	B-8					CPT-7 CPT-8	9.5	
11					D-7						CPT-9	11	



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Daily Cable Percussive Drilling Record

[redacted]@bowmandrilling.co.uk

NTH2479-BH09

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**22/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**1 of 4**

From	To	Soil Description
GL	0.70	MADEGROUND (TOPSOIL).
0.70	1.80	MADEGROUND (Soft grey CLAY).
1.80	3.00	MADEGROUND (Household waste, carpet , plastic, paper and wood).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
☐	ES-1	0.30										
☐	D-1	0.40										
☐	B-1	0.50										
☐	ES-2	0.80										
☐	B-2	0.80										
☐	D-2	0.90										
☐	B-3	1.80										
	SPT-1	1.50	1.95	1.50	dry	1	2	2	2	5	2	- 11 blows
☐	D-3	1.50	1.95									- (sample from SPT-1)
	CPT-2	2.50	2.95	2.50	dry	2	2	3	5	5	1	- 14 blows
☐	D-4	2.50	3.00									

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:		/	
Water Level - End Boring:		dry	

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(TP) GL	1.20	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	3.00	3.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 9:00 to 10:30 (1hr 30mins) - site induction. Dayworks 10:30 to 11:00 (30mins) - ecology toolbox talk. Dayworks 11:00 to 12:00 (1hr) - rig set up. Dayworks 12:00 to 12:30 (30mins) - collecting plastic to set up rig. Dayworks 12:30 to 13:00 (30mins) - laying plastic. Dayworks 14:00 to 14:30 (30mins) - pulling window sample crew stuck truck. Dayworks 16:00 to 16:30 (30mins) - cleaning truck to access the road.

Total Standing Time

Total Dayworks

5hrs 0m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
3.00	**4**	**2**	**3**				**2**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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Daily Cable Percussive Drilling Record

NTH2479-BH09

Mobile: [redacted]@bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**23/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**2 of 4**

From	To	Soil Description

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	3.00	3.00

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecologist. Dayworks 14:00 to 14:45 (45mins) - skipping spoil.

Total Standing Time

Total Dayworks

8hrs 0m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
3.00	**4**	**2**	**3**				**2**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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DRILLITLOGS.COM

Daily Cable Percussive Drilling Record

NTH2479-BH09

Mobile: [redacted] bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**24/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**3 of 4**

From	To	Soil Description
3.00	4.20	MADEGROUND (Masonry, household waste, paper, plastics, metal, wood and fabric).
4.20	6.00	MADEGROUND (CLAY).
6.00	11.90	MADEGROUND (Concrete, masonry, household waste, brick fragments, paper,
		plastics, wood and fabric).

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes
	CPT-3	3.50	3.95	3.50	dry	1	1	2	3	2	1	- 8 blows
	D-5	3.50	4.00									
	B-4	4.20										
	CPT-4	4.50	4.95	4.50	dry	1	1	1	1	2	2	- 6 blows
	D-6	4.50	5.00									
	CPT-5	5.50	5.95	5.50	dry	1	3	3	2	1	3	- 9 blows
	D-7	5.50	6.00									
	CPT-6	7.00	7.45	7.00	dry	U/W	1	1	2	3	5	- 11 blows
	D-8	7.00	7.50									
	B-5	7.50	8.00									
	SPT-7	8.50	8.95	8.50	dry	1	1	1	1	1	1	- 4 blows
	D-9	8.50	8.95									- (sample from SPT-7)
	CPT-8	10.00	10.45	10.00	dry	1	2	2	1	3	1	- 7 blows
	D-10	10.00	10.50									
	CPT-9	11.50	11.80	11.50	8.20	1	2	2	1	47		- 50 blows - 0mm Refusal Depth
	D-11	11.50	11.90									

Groundwater

	#1	#2	#3
Time:	14:00		
Depth Struck:	10.30		
Casing Depth:	10.00		
Inflow Rate:	fast		
After 5 mins rose to:	8.60		
After 10 mins rose to:	8.40		
After 15 mins rose to:	8.40		
After 20 mins rose to:	8.40		
Depth Sealed:	/		
Sample No:	/		
Sample Depth:	/		
Water Level - Start Boring:	dry		
Water Level - End Boring:	8.40		

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	11.90	11.90

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

Comments - Standing Time - Dayworks

Dayworks 8:00 to 08:45 (45mins) - awaiting ecology. Dayworks 9:00 to 12:00 (3hrs) - stripping rig and replacing damaged bearing. Dayworks 13:00 to 15:00 (2hrs) - getting tooling and casing unstuck, Pair of overalls which were in the landfill were the issue.. Dayworks 15:00 to 16:00 (1hr) - pressure washing truck and tracked dumper.

Total Standing Time

Total Dayworks

1hrs 15m

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
11.90	**11**	**2**	**5**				**9**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

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DRILLITLOGS.COM

Daily Cable Percussive Drilling Record

NTH2479-BH09

Mobile: [redacted] bowmandrilling.co.uk

Driller:	[redacted]	**Client:**	**bwb**		
Site Location:	**oxrfi**	**Job No:**		**Date:**	**25/11/2022**
Project No:	**Nth2479**	**BH No:**	**bh09**	**Sheet:**	**4 of 4**

From	To	Soil Description

Groundwater

	#1	#2	#3
Time:			
Depth Struck:			
Casing Depth:			
Inflow Rate:			
After 5 mins rose to:			
After 10 mins rose to:			
After 15 mins rose to:			
After 20 mins rose to:			
Depth Sealed:			
Sample No:			
Sample Depth:			
Water Level - Start Boring:			
Water Level - End Boring:			

Inspection Pit / Chiselling Detail

From (m):	To (m):	Time (hrs):
(CH) 11.90	11.90	1hrs 00m

Casing Record

Size:	From (m):	To (m):	Total (m):
8"	GL	11.90	11.90

Water Added

From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:	From(m):	To(m):	Litres:	Time:

Backfill/Standpipe Details

#1: 50mm pipe to 10.6m (1.6m solid & 9m slotted) + geosock,

4" Tophat coverMethane tap installed,

(top to bottom) 0.5m of concrete, 1.05m of bento pellets, 0.1m of sand, 8.95m of gravel, 0.1m of sand, 1.2m of bento pellets,

Comments - Standing Time - Dayworks

Dayworks 7:30 to 08:30 (1hr) - filling water bowser. Dayworks 8:30 to 09:00 (30mins) - awaiting ecology walkover . Dayworks 10:00 to 11:00 (1hr) - fetching install material. Dayworks 11:00 to 14:00 (3hrs) - installing well. Dayworks 14:00 to 15:30 (1hr 30mins) - moving rig to next position. Dayworks 15:30 to 16:30 (1hr) - laying plastic and setting up rig . Dayworks 16:30 to 17:00 (30mins) - cleaning dumper tracks and washing truck to make safe for road journey.

Total Standing Time

Total Dayworks

8hrs 30m

Sampling & Testing

Label	Type / No.	Depth (m) from	Depth (m) to	Casing Depth	Water Depth	Seating Blows 75	Seating Blows 75	Test Drive 75	Test Drive 75	Test Drive 75	Test Drive 75	Notes

Totals for Completed Borehole

Depth (m)	D	ES	B	UT100	W	U100	SPT/CPT
11.90	**11**	**2**	**5**				**9**

Plant Details

Plant Type:	Driling rig
Plant ID:	BD001
Plant Test Date:	16/04/2022
SPT ID Number:	del2
SPT Rod Type:	1 ½' whitWorth
SPT Calibration Date:	15/04/2021
SPT Energy Ratio:	68

Personnel Details

	Name:	CSCS No:
Lead Driller:	[redacted]	123456
2nd Operative:	[redacted]	6470989
Site Engineer:		
Driller Signature:	[redacted]	

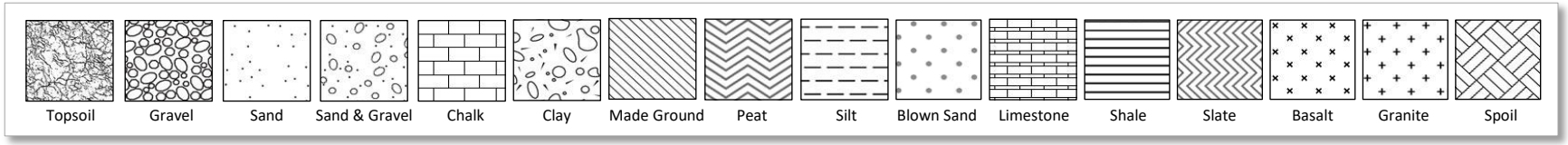
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DRILLITLOGS.COM

Data Sheet for Borehole bh09 -

Depth (m)	Description	Ground Water	Samples D	Samples B	Samples E	Samples W	Samples U	Samples P	TESTS
0 - 0.7	MADEGROUND (TOPSOIL).		D-1	B-1	ES-1				
				B-2	ES-2				
			D-2						
0.7 - 1.8	MADEGROUND (Soft grey CLAY).			B-3					SPT-1
			D-3						
1.8 - 3	MADEGROUND (Household waste, carpet , plastic, paper and wood).		D-4						CPT-2
									CPT-3
3 - 4.2	MADEGROUND (Masonry, household waste, paper, plastics, metal, wood and fabric).		D-5	B-4					
			D-6						CPT-4
4.2 - 6	MADEGROUND (CLAY).		D-7						CPT-5
			D-8						CPT-6
				B-5					
			D-9						SPT-7
		10.3m	D-10						CPT-8
6 - 11.9	MADEGROUND (Concrete, masonry, household waste, brick fragments, paper, plastics, wood and fabric).	Unknown	D-11						CPT-9

Legend: 0, 1.2, 2.4, 3.6, 4.8, 6, 7.1, 8.3, 9.5, 11, 12

Installs & Backfill: 0, 1.2, 2.4, 3.6, 4.8, 6, 7.1, 8.3, 9.5, 11, 12



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Cable Tool Rig Inspection Sheet

Company	Borehole Solutions Limited	Project	oxfordshire rfi
Lead driller	[redacted]	Project No	nth2479
BH No	bh01	Rig Type	Sonic
Date	01/12/2022	Rig ID	M1905265

Mast and Base Frame	Inspection remark	Defects / comments / repairs made
Security of mast to base frame	Safe to use	
Security of legs and cross bars / spreader bars	Safe to use	
Condition of pulley and pins (crown wheel)	Safe to use	
Freedom from cracks, damage and corrosion	Safe to use	
Condition of road brakes. wheels. tyres.	Safe to use	
Mud guards	Safe to use	
Condition of suspension and brake cables	Safe to use	
Security and condition of towing unit	Safe to use	
Break away safety chain / wire	Safe to use	
Winch and Engine	Safe to use	Defects / comments / repairs made
Condition of shaft bearings	Safe to use	
Condition of clutch	Safe to use	
Security and condition of brake band	Safe to use	
Security of engine and fuel tanks	Safe to use	
Condition of drive belts or chain	Safe to use	
Condition of pulleys or chain wheels	Safe to use	
Condition of winch guard	Safe to use	
Condition of engine	Safe to use	
Condition of exhaust	Safe to use	
Security and condition of clutch guards	Safe to use	
Engine stops and speed controls	Safe to use	
Condition and position of U bolts and thimble	Safe to use	
Condition of winch rope	Safe to use	

Tools and Equipment	**Inspection dates**		Defects / comments / repairs made
Condition of shackles		Safe to use	
Condition of D Rings		Safe to use	
Condition of swivels		Safe to use	
Condition of lifting blocks		Safe to use	
Condition of lifting chains/ sling		Safe to use	
Condition of SPT lifting point		Safe to use	
Condition of casing head- hanger		Safe to use	
CAT and Genny		N/A	
Fire extinguisher		Safe to use	

Signature

[redacted]

[redacted]

Safe to use
Worn - Safe to use
Worn - Unsafe to use
Defective
Broken
N/A

Cable Tool Rig Inspection Sheet

Company	Borehole Solutions Limited	Project	oxfordshire rfi
Lead driller	[redacted]	Project No	nth2479
BH No	bh8	Rig Type	Sonic
Date	06/12/2022	Rig ID	M1905265

Mast and Base Frame	Inspection remark	Defects / comments / repairs made
Security of mast to base frame	Safe to use	
Security of legs and cross bars / spreader bars	Safe to use	
Condition of pulley and pins (crown wheel)	Safe to use	
Freedom from cracks, damage and corrosion	Safe to use	
Condition of road brakes. wheels. tyres.	Safe to use	
Mud guards	Safe to use	
Condition of suspension and brake cables	Safe to use	
Security and condition of towing unit	Safe to use	
Break away safety chain / wire	Safe to use	
Winch and Engine	Safe to use	Defects / comments / repairs made
Condition of shaft bearings	Safe to use	
Condition of clutch	Safe to use	
Security and condition of brake band	Safe to use	
Security of engine and fuel tanks	Safe to use	
Condition of drive belts or chain	Safe to use	
Condition of pulleys or chain wheels	Safe to use	
Condition of winch guard	Safe to use	
Condition of engine	Safe to use	
Condition of exhaust	Safe to use	
Security and condition of clutch guards	Safe to use	
Engine stops and speed controls	Safe to use	
Condition and position of U bolts and thimble	Safe to use	
Condition of winch rope	Safe to use	

Tools and Equipment	**Inspection dates**		Defects / comments / repairs made
Condition of shackles		Safe to use	
Condition of D Rings		Safe to use	
Condition of swivels		Safe to use	
Condition of lifting blocks		Safe to use	
Condition of lifting chains/ sling		Safe to use	
Condition of SPT lifting point		Safe to use	
Condition of casing head- hanger		Safe to use	
CAT and Genny		N/A	
Fire extinguisher		Safe to use	

Signature

[redacted]

Safe to use
Worn - Safe to use
Worn - Unsafe to use
Defective
Broken
N/A

Appendix 3 : Trip Hammer calibration Certificates

Allied Exploration & Geotechnics Ltd.

Unit 25 Stella Gill Industrial Estate
Pelton Fell
Chester-le-Street
DH2 2RG

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

SPT Hammer Ref:	12-4
Test Date:	13/04/2023
Report Date:	13/04/2023
File Name:	12-4.spt
Test Operator:	BP

Instrumented Rod Data

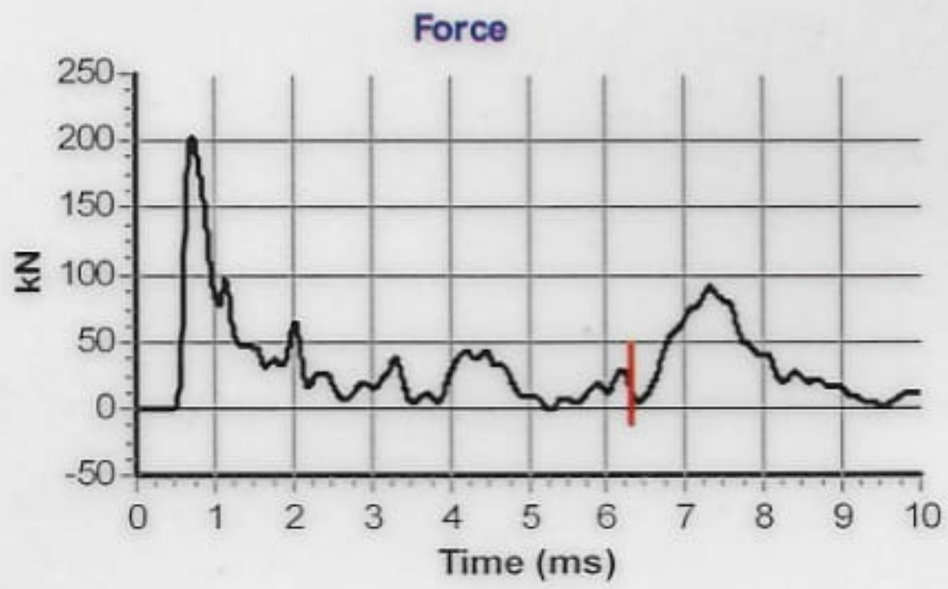
Diameter d_r (mm):	67
Wall Thickness t_r (mm):	8.7
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	65939
Accelerometer No.2:	66286

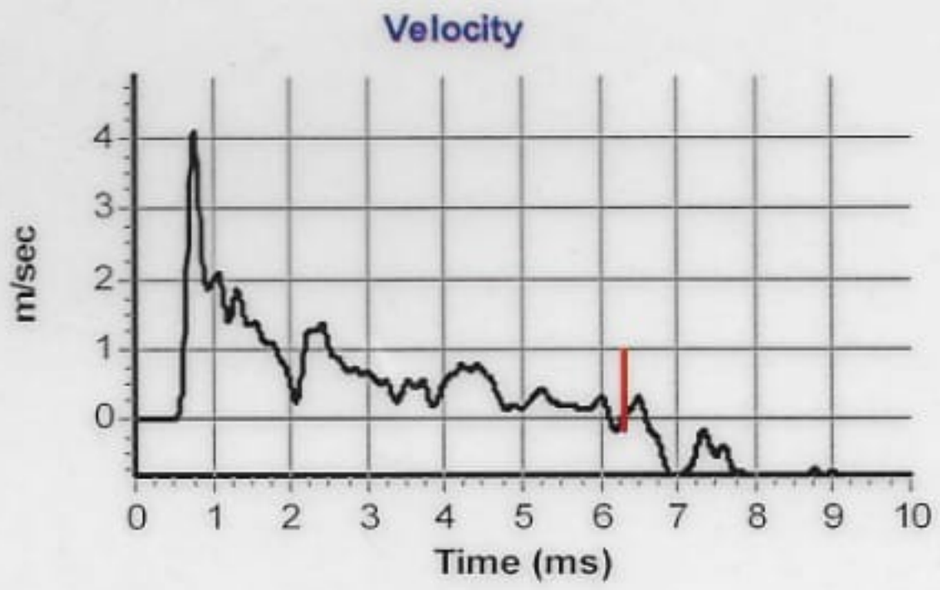
SPT Hammer Information

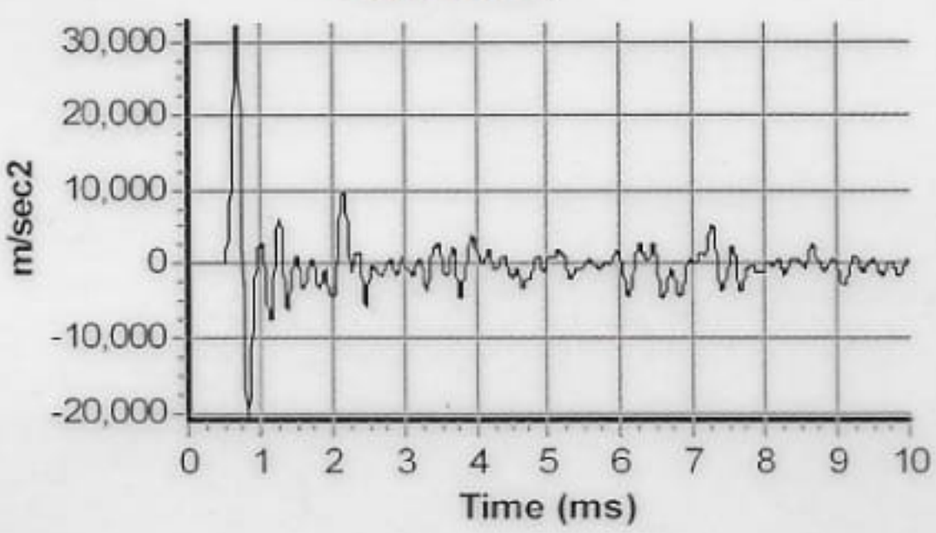
Hammer Mass m (kg):	63.5
Falling Height h (mm):	760
SPT String Length L (m):	14.1

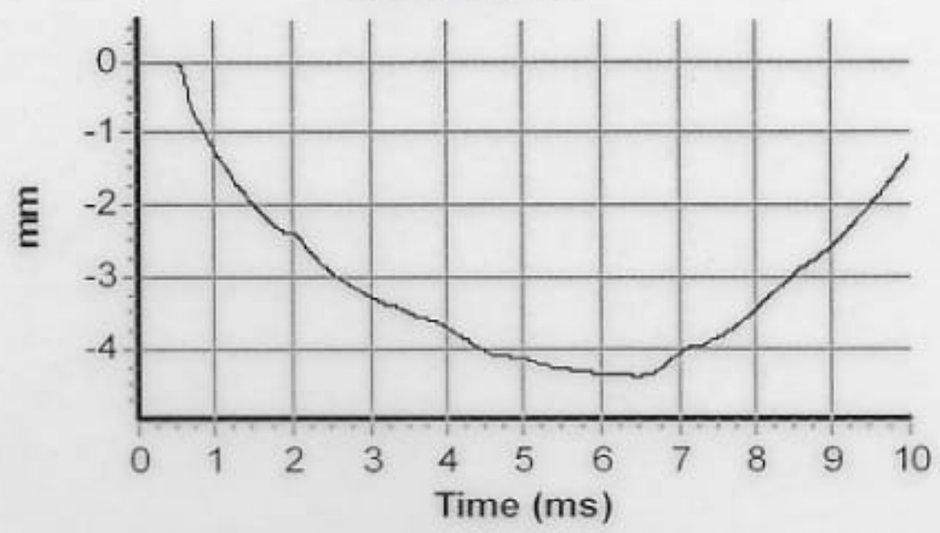
Comments / Location

Mass and drop supplied by client









Calculations

Area of Rod A (mm2):	1593
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	293

Energy Ratio E_r (%): 62

Signed: [redacted]

Title: Senior Technician

The recommended calibration interval is 12 months

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SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Borehole Calibration & Testing Solutions Ltd

Unit 8
Orton Enterprise Centre
Orton Southgate
Peterborough
PE2 6XU

SPT Hammer Ref:	RD1
Test Date:	03/01/2022
Report Date:	03/01/2022
File Name:	RD1.spt
Test Operator:	PR

Instrumented Rod Data

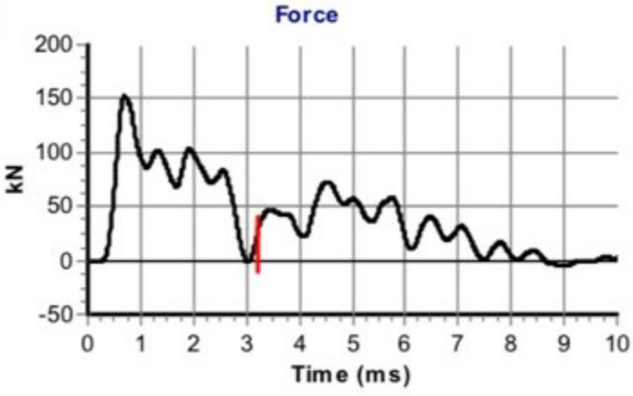
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.3
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	11853
Accelerometer No.2:	10332

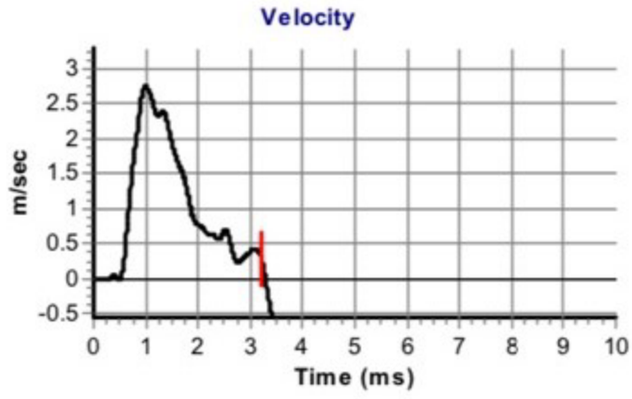
SPT Hammer Information

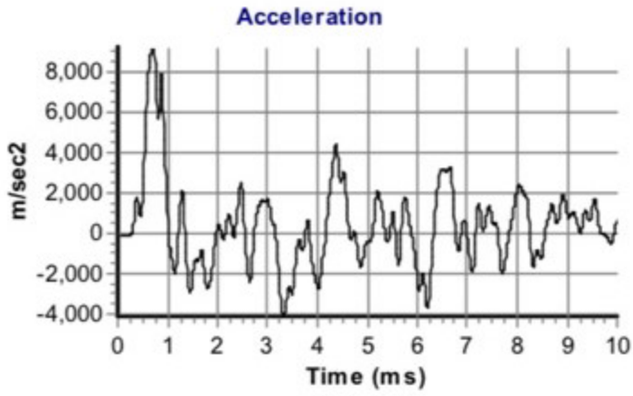
Hammer Mass m (kg):	63.0
Falling Height h (mm):	760
SPT String Length L (m):	15.0

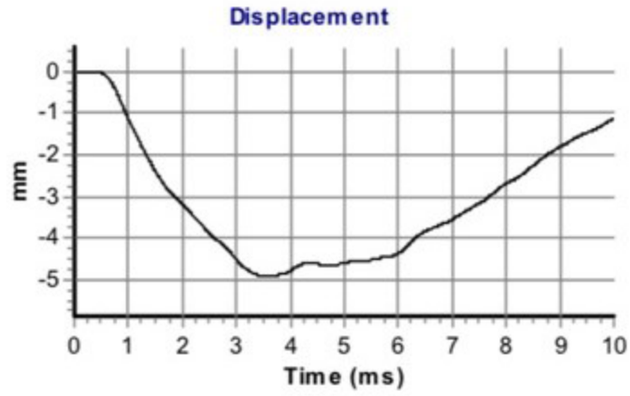
Comments / Location

Maximum calibration interval is 2 months









Calculations

Area of Rod A (mm2):	944
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	353

Energy Ratio E_r (%): **75**

[redacted]

Signed: PR

Title: Operator

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18:45 4G 40
Back RD3_030122_SPT.pdf

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Borehole Calibration & Testing Solutions Ltd

Unit 8
Orton Enterprise Centre
Orton Southgate
Peterborough
PE2 6XU

SPT Hammer Ref:	RD3
Test Date:	03/01/2022
Report Date:	03/01/2022
File Name:	RD3.spt
Test Operator:	PR

Instrumented Rod Data

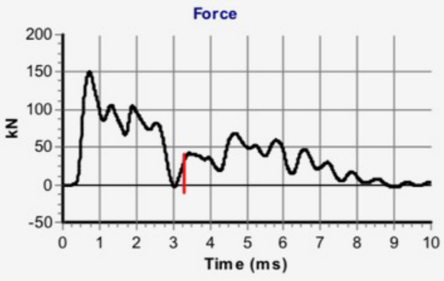
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.3
Assumed Modulus E_a (GPa):	208
Accelerometer No.1:	11853
Accelerometer No.2:	10332

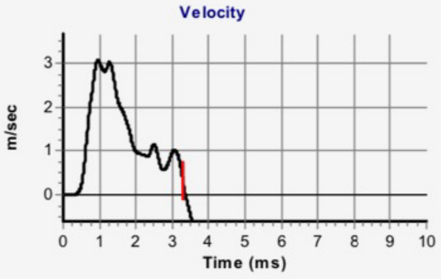
SPT Hammer Information

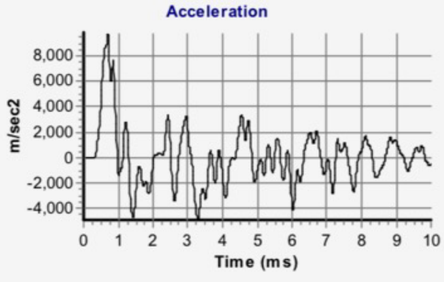
Hammer Mass m (kg):	63.0
Falling Height h (mm):	760
SPT String Length L (m):	15.0

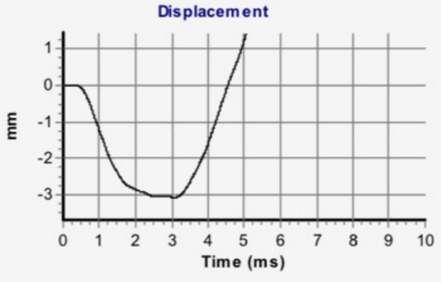
Comments / Location

Maximum calibration interval is 12 months









Calculations

Area of Rod A (mm2):	944
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	384

Energy Ratio E_r (%): **81**

[redacted]

Signed: PR

Title: Operator

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Appendix 4 : Gas and Groundwater Monitoring Results

BWB GAS AND GROUNDWATER MONITORING

Site:		Ardley Landfill, Oxfordshire RFI
Client:		Oxfordshire RFI Ltd
Job No.:		NTH2479
Date:		12 January 2023
Start / End Time:		09:00 / 11:30
Engineer:		MM
Monitoring Equipment:	**Gas Meter ID**	**BWB00959**
	PID ID	**72405**
	Dip Tape	**BWB00945**
	Other	

NR = Not Recorded
Dry = No Groundwater

CONSULTANCY | ENVIRONMENT
INFRASTRUCTURE | BUILDINGS

Weather Conditions	Start	End
(Dry / Raining)	Drizzle	Cloudy
Wind Strength (m/s)	9.7	7.7
Wind Direction (from)	SW	SW
Temperature (°C)	11.0	11.0
Barometric Pressure (h Pa / mB)	985.0	983.0
App 12 Hour Pressure (h Pa / mB)	988- 983	
12 Hour Pressure Trend	Falling	
PID - Air		
PID - Calibration Gas		

Location Reference	Relative Pressure (Pa)	Flow (l/hr)		Methane (%v/v)		Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	PID (ppm)	Depth to water (m)	Base of Response Zone (m)	Free-Phase Product Level Top (m)	Groundwater Elevation (m AOD)	Notes
		Peak	Steady	Peak	Steady	Peak	Steady	Min	Steady								
Ambient Air Start (Calibration)																	
Ambient Air Finish (Calibration)																	
BH01	10	2.5	1.8	79.1	79.1	18.2	18.2	0.1	0.1	<0.1	<0.1	1.1	4.31	7.45		114.80	Moderate hydrocarbon odour.
BH02	77	9.7	8.1	67.3	67.3	26.5	26.5	0.1	0.1	<0.1	<0.1	1.2	4.60	5.25		114.53	Slighty hydrocarbon odour.
BH03	<0.1	<0.1	<0.1	56.4	56.4	2.6	2.6	3.1	2.3	<0.1	<0.1	<0.1	3.02	6.75		113.94	Slight organic odour.
BH04A	<0.1	<0.1	<0.1	8.1	66.1	32.9	32.9	32.9	0.1	<0.1	<0.1	0.6	3.37	5.30		114.36	Slighty hydrocarbon odour.
BH05A	<0.1	<0.1	<0.1	8.1	8.1	1.7	1.7	11.0	11.0	<0.1	<0.1	1.6	2.76	8.10		113.63	Faint organic odour.
BH06	>>>	198.0	120.0	67.8	63.5	36.3	36.1	<0.1	0.3	60.0	<0.1	1.1	5.29	7.75		113.60	Moderate hydrocarbon odour.
BH07	950	380.0	61.5	62.8	62.8	36.5	35.4	<0.1	0.0	<0.1	<0.1	0.3	1.58	5.65		112.74	Moderate hydrocarbon odour.
BH08	53	7.5	6.8	73.1	66.5	30.3	30.3	0.2	0.2	<0.1	<0.1	1.3	4.95	7.95		115.00	Slighty hydrocarbon odour.
BH09	21	22.0	22.0	6.5	6.5	2.7	2.7	17.9	17.9	<0.1	<0.1	1.3	6.86	10.74		115.38	Gas bung not properly fitted. Sight organic odour.

BWB GAS AND GROUNDWATER MONITORING

Site:		Ardley Landfill, Oxfordshire RFI
Client:		Oxfordshire RFI Ltd
Job No.:		NTH2479
Date:		20 January 2023
Start / End Time:		08:00 / 11:00
Engineer:		MM
Monitoring Equipment:	Gas Meter ID	BWB00994
	PID ID	72544
	Dip Tape	BWB00945
	Other	

NR = Not Recorded
Dry = No Groundwater

CONSULTANCY | ENVIRONMENT
INFRASTRUCTURE | BUILDINGS

Weather Conditions	Start	End
(Dry / Raining)	Partial Cloudly	Fair
Wind Strength (m/s)	3.8	4.0
Wind Direction (from)	SSW	NE
Temperature (°C)	1.0	3.0
Barometric Pressure (h Pa / mB)	1004.0	1007.1
App 12 Hour Pressure (h Pa / mB)	990- 996	
12 Hour Pressure Trend	Raising	
PID - Air		
PID - Calibration Gas		

Location Reference	Relative Pressure (Pa)	Flow (l/hr)		Methane (%v/v)		Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	PID (ppm)	Depth to water (m)	Base of Response Zone (m)	Free-Phase Product Level Top (m)	Groundwater Elevation (m AOD)	Notes
		Peak	Steady	Peak	Steady	Peak	Steady	Min	Steady								
Ambient Air Start (Calibration)																	
Ambient Air Finish (Calibration)																	
BH01	2	0.7	0.6	70.1	70.1	28.8	28.8	0.1	0.1	<0.1	<0.1	1.6	4.24	7.34		114.87	Moderate hydrocarbon odour. Water sample with slight hydrocarbon od
BH02	1	0.4	0.4	67.5	67.5	24.3	24.3	0.5	0.5	<0.1	<0.1	1.2	4.54	6.05		114.59	Slighty hydrocarbon odour. Water sample with faintt hydrocarbon odour
BH03	266.0	27.2	<0.1	11.8	11.8	2.1	2.1	16.4	16.4	<0.1	<0.1	0.4	3.02	6.58		113.94	Slight organic odour. Water sample with faint organic odour. Water samp
BH04A	107.0	62.6	62.6	68.9	68.9	31.1	31.1	0.1	0.1	<0.1	<0.1	1.7	3.38	5.78		114.35	Slighty hydrocarbon odour. Water sample with slight hydrocarbon odour
BH05A	<0.1	<0.1	<0.1	1.6	1.6	1.1	1.1	17.7	17.7	<0.1	<0.1	1.6	3.02	7.98		113.37	Slight organic odour. Water sample with faint organic odour.
BH06	>>>	119.5	119.5	66.0	66.0	34.0	34.0	<0.1	<0.1	60	<0.1	2.2	5.12	7.65		113.77	Moderate hydrocarbon odour. Water sample with moderate hydrocarbo
BH07	>>>	119.3	119.3	66.6	66.6	33.3	33.3	<0.1	<0.1	<0.1	<0.1	1.0	1.64	5.46		112.68	Moderate hydrocarbon odour. Water sample with moderate hydrocarbo
BH08	1	0.3	0.3	0.1	0.1	0.1	0.1	20.0	20.0	<0.1	<0.1	0.1	4.8	6.88?		115.15	Slight hydrocarbon odour. Water sample with slight hydrocarbon odour.
BH09	2	0.4	0.2	67.8	63.5	32.0	36.1	<0.1	<0.1	<0.1	<0.1	2.9	6.65	10.75		115.59	Moderate hydrocarbon odour. Water sample with moderate hydrocarbo

BWB GAS AND GROUNDWATER MONITORING

Site:		Ardley Landfill, Oxfordshire RFI
Client:		Oxfordshire RFI Ltd
Job No.:		NTH2479
Date:		08/02.2023
Start / End Time:		08:00 / 11:00
Engineer:		MM
Monitoring Equipment:	Gas Meter ID	BWB00994
	PID ID	72544
	Dip Tape	BWB00945
	Other	

NR = Not Recorded
Dry = No Groundwater

CONSULTANCY | ENVIRONMENT
INFRASTRUCTURE | BUILDINGS

Weather Conditions	Start	End
(Dry / Raining)	Fog	Fog
Wind Strength (m/s)	1.7	2.2
Wind Direction (from)	S	S
Temperature (°C)	-1.0	1.0
Barometric Pressure (h Pa / mB)	1021.0	1020.0
App 12 Hour Pressure (h Pa / mB)	1018.4 / 1015.51	
12 Hour Pressure Trend	Falling	
PID - Air		
PID - Calibration Gas		

Location Reference	Relative Pressure (Pa)	Flow (l/hr)		Methane (%v/v)		Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	PID (ppm)	Depth to water (m)	Base of Response Zone (m)	Free-Phase Product Level Top (m)	Groundwater Elevation (m AOD)	Notes
		Peak	Steady	Peak	Steady	Peak	Steady	Min	Steady								
Ambient Air Start (Calibration)																	
Ambient Air Finish (Calibration)																	
BH01	117	13.5	3.4	71.7	70.0	31.3	31.3	<0.1	<0.1	<0.1	<0.1	1.5	4.45	7.33		114.66	Moderate hydrocarbon odour. Water sample with slight hydrocarbon od
BH02	8	3.4	2.6	73.3	A72.3	32.0	27,3	<0.1	<0.1	<0.1	<0.1	3.5	4.82	6.05		114.31	Slighty hydrocarbon odour. Water sample with faintt hydrocarbon odour
BH03	1	0.8	0.8	4.5	4.4	2.4	2.3	17.7	17.7	<0.1	3	0.8	2.84	6.54		114.12	Slight organic odour. Water sample with faint organic odour. Water samp
BH04A	298	28.1	28.0	68.1	68.1	31.8	31.8	<0.1	<0.1	25		0.7	3.92	6.68		113.81	Slighty hydrocarbon odour. Water sample with slight hydrocarbon odour
BH05A	<0.1	<0.1	<0.1	1.6	1.6	1.1	1.1	14.3	14.3	<0.1	<0.1	1.6	3.45	8.01		112.94	Slight organic odour. Water sample with faint organic odour.
BH06	>>>	169.2	119.1	66.3	66.3	30.7	30.7	<0.1	<0.1	40	<0.1	3.8	5.66	7.56		113.23	Moderate hydrocarbon odour. Water sample with moderate hydrocarbo
BH07	1968	68.2	55.4	68.2	55.4	32.7	32.7	<0.1	<0.1	<0.1	1	2.0	2.04	5.43		112.28	Moderate hydrocarbon odour. Water sample with moderate hydrocarbo
BH08	64	7.8	7.8	72.9	72.9	27.2	27.2	<0.1	<0.1	<0.1	<0.1	1.1	4.77	6.86		115.18	Slight hydrocarbon odour. Water sample with slight hydrocarbon odour.
BH09	133	12.3	17.1	68.6	68.5	31.5	31.5	<0.1	<0.1	<0.1	<0.1	2.8	6.74	10.75		115.50	Moderate hydrocarbon odour. Water sample with moderate hydrocarbo

BWB GAS AND GROUNDWATER MONITORING

Site:		Ardley Landfill, Oxfordshire RFI
Client:		Oxfordshire RFI Ltd
Job No.:		NTH2479
Date:		23/02/2023
Start / End Time:		08:00 / 11:00
Engineer:		MM
Monitoring Equipment:	Gas Meter ID	BWB00994
	PID ID	72544
	Dip Tape	BWB00945
	Other	

NR = Not Recorded
Dry = No Groundwater

BWB
CONSULTANCY | ENVIRONMENT
INFRASTRUCTURE | BUILDINGS

Weather Conditions	Start	End
(Dry / Raining)	Cloudy and windy	Cloudy and windy
Wind Strength (m/s)	6.7	7.5
Wind Direction (from)	NNE	NNE
Temperature (°C)	5.0	6.0
Barometric Pressure (h Pa / mB)	1004.0	1006.0
App 12 Hour Pressure (h Pa / mB)	993.9 / 998.8	
12 Hour Pressure Trend	rising	
PID - Air		
PID - Calibration Gas		

Location Reference	Relative Pressure (Pa)	Flow (l/hr)		Methane (%v/v)		Carbon Dioxide (%v/v)		Oxygen (%v/v)		Hydrogen Sulphide (ppm)	Carbon Monoxide (ppm)	PID (ppm)	Depth to water (m)	Base of Response Zone (m)	Free-Phase Product Level Top (m)	Groundwater Elevation (m AOD)	Notes
		Peak	Steady	Peak	Steady	Peak	Steady	Min	Steady								
Ambient Air Start (Calibration)																	
Ambient Air Finish (Calibration)																	
BH01	15	2.6	2.3	71.4	71.4	34.6	29.2	<0.1	<0.1	<0.1	5	1.6	4.64	7.35		114.47	Moderate hydrocarbon odour.
BH02	3	1.7	0.6	72.8	72.8	27.7	26.7	0.3	0.3	<0.1	<0.1	3.0	5.05	6.06		114.08	Slighty hydrocarbon odour.
BH03	1	0.7	0.6	3.1	3.0	3.3	3.3	17.1	17.1	<0.1	1	0.9	2.92	6.55		114.04	Slight organic odour.
BH04A	186	19.6	17.6	67.6	67.6	32.3	32.3	<0.1	<0.1	<0.1	<0.1	1.6	4.03	5.71		113.70	Slighty hydrocarbon odour.
BH05A	<0.1	<0.1	<0.1	0.5	0.2	4.2	4.2	17.6	17.6	<0.1	<0.1	0.5	3.59	6.11		112.80	Faint organic odour. Bailer trapped on the bottom of the standpipe.
BH06	**>>>**	118.9	118.9	67.6	67.6	32.3	32.3	<0.1	<0.1	40	1	4.9	5.37	7.55		113.52	Moderate hydrocarbon odour.
BH07	<0.1	<0.1	<0.1	59.7	59.7	27.0	27.0	3	3	<0.1	<0.1	1.9	2.48	5.45		111.84	Moderate hydrocarbon odour.
BH08	57.0	6.3	4.5	71.4	71.4	28.1	28.1	<0.1	<0.1	<0.1	<0.1	0.9	4.91	6.87		115.04	Slighty hydrocarbon odour.
BH09	5	0.6	0.4	68.4	68.4	30.6	27.5	1.0	1.0	25	<0.1	2.5	6.82	10.75		115.42	Moderate hydrocarbon odour.

Appendix 5 : Soil Chemical Laboratory Results

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Analytical Report Number : 22-12526

Project / Site name:	Oxfordshire RFI	**Samples received on:**	07/12/2022
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	09/12/2022
Your order number:	3619	**Analysis completed by:**	09/01/2023
Report Issue Number:	1	**Report issued on:**	09/01/2023
Samples Analysed:	14 leachate samples - 61 soil samples		

Signed [redacted]

[redacted]
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528501	2528502	2528503	2528504	2528505
Sample Reference				DS217	DS217	DS217	DS218A	DS219
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	1.80-1.90	2.50-2.60	5.30-5.60	1.20-1.30
Date Sampled				15/11/2022	15/11/2022	15/11/2022	15/11/2022	15/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	20	22	39	9.5
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	MWI	MWI	MWI	MWI	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	7.7	7.7	7.8	7.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	1.7	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	1.7	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.048	0.52	0.34	0.5	1.7
Total Sulphur	mg/kg	50	MCERTS	340	2000	860	2000	9500
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.011	0.017	0.013	0.056	0.0063
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	< 0.120	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.58	0.62	0.21*	0.97*	0.73
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*	0.69*	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.06	0.05*	0.38*	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.48	0.29*	1.1*	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.14	0.08*	0.29*	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.2	0.67*	1.7*	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1.2	0.66*	1.5*	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.73	0.39*	0.67*	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.54	0.3*	0.81*	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.81	0.44*	0.74*	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.37	0.22*	0.45*	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.65	0.39*	0.59*	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.41	0.17*	< 0.05*	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.11	< 0.05*	< 0.05*	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.43	0.22*	< 0.05*	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	7.65	4.14*	9.89*	< 0.80

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528501	2528502	2528503	2528504	2528505
Sample Reference				DS217	DS217	DS217	DS218A	DS219
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	1.80-1.90	2.50-2.60	5.30-5.60	1.20-1.30
Date Sampled				15/11/2022	15/11/2022	15/11/2022	15/11/2022	15/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	27	32	16	7.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	44	160	67	72	9
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.75	1.6	1.4	0.78	0.32
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	1	0.9	25	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	51	56	34	8.4
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	54	22	27	4.8
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	170	42	38	4.7
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	17	41	36	23	8.2
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33	68	90	47	17
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	39	260	97	320	11
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	58	51	4100	< 10
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	-	-	-

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528501	2528502	2528503	2528504	2528505
Sample Reference				DS217	DS217	DS217	DS218A	DS219
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	1.80-1.90	2.50-2.60	5.30-5.60	1.20-1.30
Date Sampled				15/11/2022	15/11/2022	15/11/2022	15/11/2022	15/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Chloroethane	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
Tetrachloromethane	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
Styrene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Tribromomethane	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Butylbenzene	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528501	2528502	2528503	2528504	2528505
Sample Reference				DS217	DS217	DS217	DS218A	DS219
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	1.80-1.90	2.50-2.60	5.30-5.60	1.20-1.30
Date Sampled				15/11/2022	15/11/2022	15/11/2022	15/11/2022	15/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	< 5.0	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528501	2528502	2528503	2528504	2528505
Sample Reference				DS217	DS217	DS217	DS218A	DS219
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	1.80-1.90	2.50-2.60	5.30-5.60	1.20-1.30
Date Sampled				15/11/2022	15/11/2022	15/11/2022	15/11/2022	15/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	0.3*	0.7*	-
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2*	< 0.2*	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1*	< 0.1*	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2*	< 0.2*	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2*	< 0.2*	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1*	< 0.1*	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2*	0.3*	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1*	< 0.1*	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05*	< 0.05*	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2*	0.3*	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2*	< 0.2*	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3*	< 0.3*	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	0.21*	0.97*	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1*	< 0.1*	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1*	< 0.1*	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1*	< 0.1*	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1*	< 0.1*	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2*	< 0.2*	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1*	0.7*	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1*	< 0.1*	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1*	< 0.1*	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1*	< 0.1*	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	0.05*	< 0.05*	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05*	0.69*	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2*	< 0.2*	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2*	0.4*	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2*	< 0.2*	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2*	< 0.2*	-
Fluorene	mg/kg	0.05	MCERTS	-	-	0.05*	0.38*	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3*	0.5*	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2*	< 0.2*	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	0.29*	1.1*	-
Anthracene	mg/kg	0.05	MCERTS	-	-	0.08*	0.29*	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3*	< 0.3*	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2*	1.8*	-
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3*	< 0.3*	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	0.67*	1.7*	-
Pyrene	mg/kg	0.05	MCERTS	-	-	0.66*	1.5*	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3*	< 0.3*	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	0.39*	0.67*	-
Chrysene	mg/kg	0.05	MCERTS	-	-	0.3*	0.81*	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.44*	0.74*	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.22*	0.45*	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	0.39*	0.59*	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528501	2528502	2528503	2528504	2528505
Sample Reference				DS217	DS217	DS217	DS218A	DS219
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.30	1.80-1.90	2.50-2.60	5.30-5.60	1.20-1.30
Date Sampled				15/11/2022	15/11/2022	15/11/2022	15/11/2022	15/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	0.17*	< 0.05*	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05*	< 0.05*	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	0.22*	< 0.05*	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	< 0.001	< 0.001	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	< 0.007	< 0.007	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528506	2528507	2528508	2528509	2528510
Sample Reference				DS219	DS219A	DS216	DS216	DS215
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90-2.00	1.70-1.80	0.20-0.30	2.60-2.70	1.70-1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	17/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	14	12	19	14
Total mass of sample received	kg	0.001	NONE	0.9	1	0.9	0.9	1
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MWI	N/A	MWI	MWI	MWI

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	-	8.1	7.6	-
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.18	-	0.025	0.18	-
Total Sulphur	mg/kg	50	MCERTS	650	-	300	470	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.007	-	0.012	0.0055	-
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	< 0.120	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.57*	-	0.27	0.2*	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	-	< 0.05	< 0.05*	-
Acenaphthene	mg/kg	0.05	MCERTS	0.14*	-	0.08	< 0.05*	-
Fluorene	mg/kg	0.05	MCERTS	0.11*	-	0.09	< 0.05*	-
Phenanthrene	mg/kg	0.05	MCERTS	0.18*	-	1.1	0.17*	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05*	-	0.27	< 0.05*	-
Fluoranthene	mg/kg	0.05	MCERTS	0.18*	-	3.5	0.28*	-
Pyrene	mg/kg	0.05	MCERTS	0.21*	-	3.2	0.25*	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.08*	-	1.9	0.09*	-
Chrysene	mg/kg	0.05	MCERTS	0.08*	-	1.6	0.11*	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.14*	-	2.5	0.14*	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05*	-	0.97	0.05*	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.11*	-	2.2	0.12*	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05*	-	1.3	< 0.05*	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05*	-	0.27	< 0.05*	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05*	-	1.4	0.05*	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.8*	-	20.6	1.46*	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528506	2528507	2528508	2528509	2528510
Sample Reference				DS219	DS219A	DS216	DS216	DS215
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90-2.00	1.70-1.80	0.20-0.30	2.60-2.70	1.70-1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	17/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	-	15	16	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	30	-	59	36	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.45	-	0.78	0.98	-
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	0.3	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	13	-	22	44	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	-	14	18	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	10	-	16	21	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	-	17	28	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	41	57	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	28	-	40	85	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
o-xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	-	22	< 10	-
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	-	< 0.1	< 0.1	-
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	< 10	-	-	< 10	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	-	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	< 10	-	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	< 10	-	-	< 10	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528506	2528507	2528508	2528509	2528510
Sample Reference				DS219	DS219A	DS216	DS216	DS215
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90-2.00	1.70-1.80	0.20-0.30	2.60-2.70	1.70-1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	17/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Chloroethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trichloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
Tetrachloromethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
Styrene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Tribromomethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Bromobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Butylbenzene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528506	2528507	2528508	2528509	2528510
Sample Reference				DS219	DS219A	DS216	DS216	DS215
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90-2.00	1.70-1.80	0.20-0.30	2.60-2.70	1.70-1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	17/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528506	2528507	2528508	2528509	2528510
Sample Reference				DS219	DS219A	DS216	DS216	DS215
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90-2.00	1.70-1.80	0.20-0.30	2.60-2.70	1.70-1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	17/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	0.3*	-	-	0.3*	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2*	-	-	< 0.2*	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05*	-	-	< 0.05*	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Naphthalene	mg/kg	0.05	MCERTS	0.57*	-	-	0.2*	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	-	-	< 0.05*	-
Acenaphthene	mg/kg	0.05	MCERTS	0.14*	-	-	< 0.05*	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Fluorene	mg/kg	0.05	MCERTS	0.11*	-	-	< 0.05*	-
Azobenzene	mg/kg	0.3	NONE	0.4*	-	-	< 0.3*	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Phenanthrene	mg/kg	0.05	MCERTS	0.18*	-	-	0.17*	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05*	-	-	< 0.05*	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Anthraquinone	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
Fluoranthene	mg/kg	0.05	MCERTS	0.18*	-	-	0.28*	-
Pyrene	mg/kg	0.05	MCERTS	0.21*	-	-	0.25*	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.08*	-	-	0.09*	-
Chrysene	mg/kg	0.05	MCERTS	0.08*	-	-	0.11*	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.14*	-	-	0.14*	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05*	-	-	0.05*	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.11*	-	-	0.12*	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528506	2528507	2528508	2528509	2528510
Sample Reference				DS219	DS219A	DS216	DS216	DS215
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90-2.00	1.70-1.80	0.20-0.30	2.60-2.70	1.70-1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	17/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05*	-	-	< 0.05*	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05*	-	-	< 0.05*	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05*	-	-	0.05*	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001
PCB Congener 52	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001
PCB Congener 101	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001
PCB Congener 118	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001
PCB Congener 138	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001
PCB Congener 153	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001
PCB Congener 180	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	< 0.001

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	< 0.007	-	-	< 0.007	< 0.007

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528511	2528512	2528513	2528514	2528515
Sample Reference				BH07	BH07	BH07	BH07	BH06
Sample Number				None Supplied	None Supplied	None Supplied	Bulk Bag	None Supplied
Depth (m)				0.30	0.85	5.50-6.00	5.50-6.00	1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
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	27	27	< 0.1	-	< 0.1
Moisture Content	%	0.01	NONE	14	12	29	-	14
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	-	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MWI	N/A	MWI	LFT	LFT

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	7.9	7.3	-	7.5
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.019	0.013	0.16	-	1.1
Total Sulphur	mg/kg	50	MCERTS	480	350	3100	-	3100
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.022	0.012	0.013	-	0.0071
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	< 0.120	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.59	0.55	0.31*	-	1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07*	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.24*	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.23*	-	0.08
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.24*	-	0.09
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.1*	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09*	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.08*	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05*	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.07*	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05*	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	1.43*	-	1.19

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528511	2528512	2528513	2528514	2528515
Sample Reference				BH07	BH07	BH07	BH07	BH06
Sample Number				None Supplied	None Supplied	None Supplied	Bulk Bag	None Supplied
Depth (m)				0.30	0.85	5.50-6.00	5.50-6.00	1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	12	13	-	8.2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	48	44	31	-	16
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.77	0.74	0.68	-	0.42
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	0.6	0.6	-	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	20	28	-	11
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	16	15	-	7.3
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	12	19	-	7.2
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	15	24	-	9.9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	39	36	41	-	20
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	43	35	78	-	18
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
o-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	-	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	< 10	48	-	< 10
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	4.1	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	8	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	31	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	44	-	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	< 10	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528511	2528512	2528513	2528514	2528515
Sample Reference				BH07	BH07	BH07	BH07	BH06
Sample Number				None Supplied	None Supplied	None Supplied	Bulk Bag	None Supplied
Depth (m)				0.30	0.85	5.50-6.00	5.50-6.00	1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Chloroethane	µg/kg	5	NONE	-	-	< 5.0	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	< 5.0	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	< 5.0	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	< 5.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	< 5.0	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	-	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	< 5.0	-	-
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Tetrachloromethane	µg/kg	5	NONE	-	-	< 5.0	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-	< 5.0	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Styrene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Tribromomethane	µg/kg	5	NONE	-	-	< 5.0	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Butylbenzene	µg/kg	5	NONE	-	-	< 5.0	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528511	2528512	2528513	2528514	2528515
Sample Reference				BH07	BH07	BH07	BH07	BH06
Sample Number				None Supplied	None Supplied	None Supplied	Bulk Bag	None Supplied
Depth (m)				0.30	0.85	5.50-6.00	5.50-6.00	1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	< 5.0	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528511	2528512	2528513	2528514	2528515
Sample Reference				BH07	BH07	BH07	BH07	BH06
Sample Number				None Supplied	None Supplied	None Supplied	Bulk Bag	None Supplied
Depth (m)				0.30	0.85	5.50-6.00	5.50-6.00	1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	0.3*	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2*	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1*	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1*	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1*	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	< 0.05*	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2*	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3*	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	0.31*	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1*	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1*	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1*	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1*	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2*	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	0.1*	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1*	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1*	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1*	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05*	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05*	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2*	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2*	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	0.07*	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3*	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2*	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	0.24*	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05*	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	< 0.3*	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2*	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3*	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	0.23*	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	0.24*	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	< 0.3*	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	0.1*	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	0.09*	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.08*	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	< 0.05*	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	0.07*	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528511	2528512	2528513	2528514	2528515
Sample Reference				BH07	BH07	BH07	BH07	BH06
Sample Number				None Supplied	None Supplied	None Supplied	Bulk Bag	None Supplied
Depth (m)				0.30	0.85	5.50-6.00	5.50-6.00	1.90
Date Sampled				16/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05*	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05*	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	< 0.05*	-	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	< 0.001	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	< 0.001	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	< 0.007	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528516	2528517	2528518	2528519	2528520
Sample Reference				BH06	BH06	BH06	DS212	DS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.50	6.20-6.30	2.10-2.20	1.20-1.40
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	-	< 0.1	52
Moisture Content	%	0.01	NONE	17	32	-	19	16
Total mass of sample received	kg	0.001	NONE	0.9	0.9	-	0.9	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	LFT	LFT	LFT	LFT	N/A
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.4	-	-	-	7.6
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.94	-	-	-	0.55
Total Sulphur	mg/kg	50	MCERTS	3100	-	-	-	2100
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.011	-	-	-	0.019
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	< 0.120	-	-	< 0.120	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.68*	-	-	-	< 0.05*
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	-	-	-	< 0.05*
Acenaphthene	mg/kg	0.05	MCERTS	0.43*	-	-	-	< 0.05*
Fluorene	mg/kg	0.05	MCERTS	0.34*	-	-	-	< 0.05*
Phenanthrene	mg/kg	0.05	MCERTS	0.34*	-	-	-	0.13*
Anthracene	mg/kg	0.05	MCERTS	0.13*	-	-	-	< 0.05*
Fluoranthene	mg/kg	0.05	MCERTS	1.4*	-	-	-	0.33*
Pyrene	mg/kg	0.05	MCERTS	1.2*	-	-	-	0.34*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.4*	-	-	-	0.16*
Chrysene	mg/kg	0.05	MCERTS	0.41*	-	-	-	0.26*
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.54*	-	-	-	0.3*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.27*	-	-	-	0.19*
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.42*	-	-	-	0.28*
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.21*	-	-	-	0.16*
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05*	-	-	-	< 0.05*
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.24*	-	-	-	0.17*
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.04*	-	-	-	2.32*

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528516	2528517	2528518	2528519	2528520
Sample Reference				BH06	BH06	BH06	DS212	DS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.50	6.20-6.30	2.10-2.20	1.20-1.40
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	-	-	-	13
Barium (aqua regia extractable)	mg/kg	1	MCERTS	31	-	-	-	50
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.55	-	-	-	0.65
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	-	-	-	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	-	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	-	-	-	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	-	-	-	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	-	-	-	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	-	-	-	15
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	34	-	-	-	37
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	-	-	-	43
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
o-xylene	µg/kg	5	MCERTS	-	< 5.0	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	< 5.0	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	-	-	-	26
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	-	-	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	4.5	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	48	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	79	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	100	-	18	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	230	-	23	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	1.7	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	24	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	52	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	51	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	130	-	< 10	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528516	2528517	2528518	2528519	2528520
Sample Reference				BH06	BH06	BH06	DS212	DS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.50	6.20-6.30	2.10-2.20	1.20-1.40
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Chloroethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trichloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
Tetrachloromethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
Styrene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Tribromomethane	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Bromobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Butylbenzene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528516	2528517	2528518	2528519	2528520
Sample Reference				BH06	BH06	BH06	DS212	DS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.50	6.20-6.30	2.10-2.20	1.20-1.40
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528516	2528517	2528518	2528519	2528520
Sample Reference				BH06	BH06	BH06	DS212	DS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.50	6.20-6.30	2.10-2.20	1.20-1.40
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	0.4*	-	-	0.2*	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2*	-	-	< 0.2*	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05*	-	-	< 0.05*	-
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
4-Methylphenol	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Isophorone	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Naphthalene	mg/kg	0.05	MCERTS	0.68*	-	-	0.08*	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
2-Methylnaphthalene	mg/kg	0.1	NONE	0.1*	-	-	< 0.1*	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1*	-	-	< 0.1*	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1*	-	-	< 0.1*	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	-	-	< 0.05*	-
Acenaphthene	mg/kg	0.05	MCERTS	0.43*	-	-	0.08*	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Dibenzofuran	mg/kg	0.2	MCERTS	0.3*	-	-	< 0.2*	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Fluorene	mg/kg	0.05	MCERTS	0.34*	-	-	0.08*	-
Azobenzene	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2*	-	-	< 0.2*	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Phenanthrene	mg/kg	0.05	MCERTS	0.34*	-	-	0.4*	-
Anthracene	mg/kg	0.05	MCERTS	0.13*	-	-	0.1*	-
Carbazole	mg/kg	0.3	MCERTS	< 0.3*	-	-	< 0.3*	-
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2*	-	-	< 0.2*	-
Anthraquinone	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
Fluoranthene	mg/kg	0.05	MCERTS	1.4*	-	-	0.65*	-
Pyrene	mg/kg	0.05	MCERTS	1.2*	-	-	0.62*	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3*	-	-	< 0.3*	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.4*	-	-	0.26*	-
Chrysene	mg/kg	0.05	MCERTS	0.41*	-	-	0.3*	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.54*	-	-	0.36*	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.27*	-	-	0.15*	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.42*	-	-	0.27*	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528516	2528517	2528518	2528519	2528520
Sample Reference				BH06	BH06	BH06	DS212	DS209
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.50	6.20-6.30	2.10-2.20	1.20-1.40
Date Sampled				16/11/2022	16/11/2022	16/11/2022	17/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.21*	-	-	0.14*	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05*	-	-	< 0.05*	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.24*	-	-	0.16*	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
PCB Congener 52	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
PCB Congener 101	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
PCB Congener 118	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
PCB Congener 138	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
PCB Congener 153	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-
PCB Congener 180	mg/kg	0.001	NONE	< 0.001	-	-	< 0.001	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	< 0.007	-	-	< 0.007	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528521	2528522	2528523	2528524	2528525
Sample Reference				DS209	DS209	DS210	DS211	DS213
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-3.20	5.00-5.20	1.60	1.70	0.40-0.80
Date Sampled				18/11/2022	18/11/2022	18/11/2022	18/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	77	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	9.8	16	16	12
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	LFT	LFT	N/A	LFT	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	8.1	7.1	-	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.53	0.41	1.7	-	0.0095
Total Sulphur	mg/kg	50	MCERTS	2000	1300	12000	-	320
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0098	0.0075	0.0061	-	0.011
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	< 0.120	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.06*	< 0.05	< 0.05	-	0.06*
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	< 0.05	< 0.05	-	< 0.05*
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05*	< 0.05	< 0.05	-	< 0.05*
Fluorene	mg/kg	0.05	MCERTS	< 0.05*	< 0.05	< 0.05	-	0.07*
Phenanthrene	mg/kg	0.05	MCERTS	0.77*	0.13	0.1	-	0.53*
Anthracene	mg/kg	0.05	MCERTS	0.27*	< 0.05	< 0.05	-	0.1*
Fluoranthene	mg/kg	0.05	MCERTS	2.1*	0.25	0.31	-	0.62*
Pyrene	mg/kg	0.05	MCERTS	2.1*	0.22	0.3	-	0.51*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1*	0.09	0.18	-	0.19*
Chrysene	mg/kg	0.05	MCERTS	0.78*	0.09	0.17	-	0.25*
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	1.2*	0.09	0.21	-	0.29*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.59*	0.05	0.08	-	0.13*
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1*	0.07	0.14	-	0.23*
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.61*	< 0.05	< 0.05	-	0.14*
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.09*	< 0.05	< 0.05	-	< 0.05*
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.6*	< 0.05	< 0.05	-	0.16*

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	11.2*	0.99	1.49	-	3.28*

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528521	2528522	2528523	2528524	2528525
Sample Reference				DS209	DS209	DS210	DS211	DS213
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-3.20	5.00-5.20	1.60	1.70	0.40-0.80
Date Sampled				18/11/2022	18/11/2022	18/11/2022	18/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.1	11	12	-	10
Barium (aqua regia extractable)	mg/kg	1	MCERTS	36	21	25	-	38
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.4	0.43	0.89	-	0.61
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	2.1	2.5	-	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.4	< 0.2	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	14	11	28	-	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.9	12	14	-	10
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	13	12	-	14
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	12	11	29	-	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	31	20	45	-	29
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	42	26	54	-	32
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
o-xylene	µg/kg	5	MCERTS	< 5.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	-	-	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	160	< 10	< 10	-	< 10
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	8.4	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	34	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	64	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	110	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	2.5	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	27	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	22	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	51	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528521	2528522	2528523	2528524	2528525
Sample Reference				DS209	DS209	DS210	DS211	DS213
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-3.20	5.00-5.20	1.60	1.70	0.40-0.80
Date Sampled				18/11/2022	18/11/2022	18/11/2022	18/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Chloroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Tetrachloromethane	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Styrene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Tribromomethane	µg/kg	5	NONE	-	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Butylbenzene	µg/kg	5	NONE	-	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528521	2528522	2528523	2528524	2528525
Sample Reference				DS209	DS209	DS210	DS211	DS213
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-3.20	5.00-5.20	1.60	1.70	0.40-0.80
Date Sampled				18/11/2022	18/11/2022	18/11/2022	18/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528521	2528522	2528523	2528524	2528525
Sample Reference				DS209	DS209	DS210	DS211	DS213
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-3.20	5.00-5.20	1.60	1.70	0.40-0.80
Date Sampled				18/11/2022	18/11/2022	18/11/2022	18/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	0.2*	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2*	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1*	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1*	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1*	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	< 0.05*	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2*	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	< 0.3*	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	0.18*	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1*	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1*	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1*	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	< 0.1*	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2*	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	< 0.1*	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1*	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1*	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	< 0.1*	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05*	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05*	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	< 0.2*	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	< 0.2*	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05*	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	< 0.3*	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2*	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.29*	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.05*	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3*	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	< 0.2*	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	< 0.3*	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.52*	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.44*	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	< 0.3*	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	0.2*	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.17*	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.2*	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.12*	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.18*	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528521	2528522	2528523	2528524	2528525
Sample Reference				DS209	DS209	DS210	DS211	DS213
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00-3.20	5.00-5.20	1.60	1.70	0.40-0.80
Date Sampled				18/11/2022	18/11/2022	18/11/2022	18/11/2022	18/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.06*	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05*	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	0.09*	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	-	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528526	2528527	2528528	2528529	2528530
Sample Reference				DS213	DS201	DS201	DS202	DS203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	0.70-0.80	1.80-1.90	2.15-2.20	1.10-1.30
Date Sampled				18/11/2022	21/11/2022	21/11/2022	21/11/2022	21/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	48	-	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.3	12	-	28	13
Total mass of sample received	kg	0.001	NONE	0.9	0.9	-	0.9	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	LFT	N/A	SZS	SZS	N/A
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.4	7.9	-	7.7	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.17	0.94	-	0.92	0.81
Total Sulphur	mg/kg	50	MCERTS	1100	7200	-	3100	4300
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.016	0.0065	-	0.036	0.0062
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.62*	< 0.05	-	0.26	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.66*	< 0.05	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	8.9*	< 0.05	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	13*	< 0.05	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	83*	< 0.05	-	0.47	< 0.05
Anthracene	mg/kg	0.05	MCERTS	18*	< 0.05	-	0.09	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	82*	< 0.05	-	0.45	< 0.05
Pyrene	mg/kg	0.05	MCERTS	59*	< 0.05	-	0.4	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	33*	< 0.05	-	0.16	< 0.05
Chrysene	mg/kg	0.05	MCERTS	25*	< 0.05	-	0.16	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	30*	< 0.05	-	0.18	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	12*	< 0.05	-	0.06	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	20*	< 0.05	-	0.14	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	12*	< 0.05	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.7*	< 0.05	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	12*	< 0.05	-	< 0.05	< 0.05
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	412*	< 0.80	-	2.37	< 0.80

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528526	2528527	2528528	2528529	2528530
Sample Reference				DS213	DS201	DS201	DS202	DS203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	0.70-0.80	1.80-1.90	2.15-2.20	1.10-1.30
Date Sampled				18/11/2022	21/11/2022	21/11/2022	21/11/2022	21/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	6.5	-	9.9	7.6
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	9.9	-	52	10
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.6	0.42	-	0.41	0.32
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.4	-	4.6	< 0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	< 0.2	-	0.5	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	-	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	8.3	-	33	8.2
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	7.2	-	18	5.8
Lead (aqua regia extractable)	mg/kg	1	MCERTS	40	5.4	-	17	5.6
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	8.8	-	21	9.3
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	16	-	26	17
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	93	12	-	60	13
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
o-xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	< 5.0	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	670	< 10	-	680	< 10
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	-	5.4	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	-	12	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	20	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	230	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	-	270	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	-	15	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	200	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	120	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	-	340	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528526	2528527	2528528	2528529	2528530
Sample Reference				DS213	DS201	DS201	DS202	DS203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	0.70-0.80	1.80-1.90	2.15-2.20	1.10-1.30
Date Sampled				18/11/2022	21/11/2022	21/11/2022	21/11/2022	21/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Chloroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Tetrachloromethane	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Styrene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Tribromomethane	µg/kg	5	NONE	-	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Butylbenzene	µg/kg	5	NONE	-	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528526	2528527	2528528	2528529	2528530
Sample Reference				DS213	DS201	DS201	DS202	DS203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	0.70-0.80	1.80-1.90	2.15-2.20	1.10-1.30
Date Sampled				18/11/2022	21/11/2022	21/11/2022	21/11/2022	21/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528526	2528527	2528528	2528529	2528530
Sample Reference				DS213	DS201	DS201	DS202	DS203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	0.70-0.80	1.80-1.90	2.15-2.20	1.10-1.30
Date Sampled				18/11/2022	21/11/2022	21/11/2022	21/11/2022	21/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	0.3	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	0.26	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	0.2	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.47	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.09	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	0.5	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.45	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.4	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	0.16	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.16	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.18	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.06	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.14	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528526	2528527	2528528	2528529	2528530
Sample Reference				DS213	DS201	DS201	DS202	DS203
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	0.70-0.80	1.80-1.90	2.15-2.20	1.10-1.30
Date Sampled				18/11/2022	21/11/2022	21/11/2022	21/11/2022	21/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	-	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528531	2528532	2528533	2528534	2528535
Sample Reference				DS203	DS207	DS207	DS214	DS205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.30	0.20-0.30	2.40-2.50	0.70-0.80	0.20-0.30
Date Sampled				21/11/2022	21/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	-	-	< 0.1
Moisture Content	%	0.01	NONE	16	16	-	-	17
Total mass of sample received	kg	0.001	NONE	0.9	0.9	-	-	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	SZS	N/A	SZS	SZS	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	8.2	-	-	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1	0.011	-	-	0.023
Total Sulphur	mg/kg	50	MCERTS	9400	470	-	-	390
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.013	0.018	-	-	0.017
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	8.1	< 1.0	-	-	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	0.46
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.35	< 0.05	-	-	0.13
Anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.52	0.14	-	-	0.24
Pyrene	mg/kg	0.05	MCERTS	0.5	0.15	-	-	0.27
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.25	0.12	-	-	0.1
Chrysene	mg/kg	0.05	MCERTS	0.19	0.07	-	-	0.14
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.27	0.14	-	-	0.15
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.14	0.07	-	-	0.06
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.21	0.11	-	-	0.09
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.15	< 0.05	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.16	< 0.05	-	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.81	0.8	-	-	1.64

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528531	2528532	2528533	2528534	2528535
Sample Reference				DS203	DS207	DS207	DS214	DS205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.30	0.20-0.30	2.40-2.50	0.70-0.80	0.20-0.30
Date Sampled				21/11/2022	21/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	16	-	-	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	35	59	-	-	58
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.72	1.1	-	-	0.92
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.3	-	-	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	-	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	27	-	-	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	13	-	-	11
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	21	-	-	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	21	-	-	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53	49	-	-	40
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	66	52	-	-	44
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	37	< 10	-	-	< 10
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528531	2528532	2528533	2528534	2528535
Sample Reference				DS203	DS207	DS207	DS214	DS205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.30	0.20-0.30	2.40-2.50	0.70-0.80	0.20-0.30
Date Sampled				21/11/2022	21/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	5	NONE	-	-	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	-	-	-
Styrene	µg/kg	5	ISO 17025	-	-	-	-	-
Tribromomethane	µg/kg	5	NONE	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Butylbenzene	µg/kg	5	NONE	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528531	2528532	2528533	2528534	2528535
Sample Reference				DS203	DS207	DS207	DS214	DS205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.30	0.20-0.30	2.40-2.50	0.70-0.80	0.20-0.30
Date Sampled				21/11/2022	21/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528531	2528532	2528533	2528534	2528535
Sample Reference				DS203	DS207	DS207	DS214	DS205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.30	0.20-0.30	2.40-2.50	0.70-0.80	0.20-0.30
Date Sampled				21/11/2022	21/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528531	2528532	2528533	2528534	2528535
Sample Reference				DS203	DS207	DS207	DS214	DS205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.30	0.20-0.30	2.40-2.50	0.70-0.80	0.20-0.30
Date Sampled				21/11/2022	21/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	-	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528536	2528537	2528538	2528539	2528540
Sample Reference				DS205	DS206	DS206	DS206	DS208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.40	0.80-0.90	1.60-1.70	2.10-2.30	2.40-2.60
Date Sampled				22/11/2022	22/11/2022	22/11/2022	22/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	39	12	8.9	28	12
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.3	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SZS	N/A	N/A	SZS	SZS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.4	7.9	7.4	7.7	-
Total Cyanide	mg/kg	1	MCERTS	1.4	< 1.0	< 1.0	< 1.0	-
Complex Cyanide	mg/kg	1	MCERTS	1.4	< 1.0	< 1.0	< 1.0	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.52	0.15	1.6	0.44	-
Total Sulphur	mg/kg	50	MCERTS	1800	2600	11000	1400	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.07	0.0064	0.0053	0.029	-
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	-	-	< 0.120

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.46	0.55	0.52	0.49	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	0.1	< 0.05	< 0.05	0.09	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	0.14	< 0.05	< 0.05	0.12	-
Pyrene	mg/kg	0.05	MCERTS	0.21	< 0.05	< 0.05	0.12	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	< 0.05	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	1.02	< 0.80	< 0.80	0.82	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528536	2528537	2528538	2528539	2528540
Sample Reference				DS205	DS206	DS206	DS206	DS208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.40	0.80-0.90	1.60-1.70	2.10-2.30	2.40-2.60
Date Sampled				22/11/2022	22/11/2022	22/11/2022	22/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	8.7	6.1	17	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	110	21	7.9	70	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.66	0.48	0.3	0.78	-
Boron (water soluble)	mg/kg	0.2	MCERTS	4.1	0.4	0.3	2.3	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	12	7.5	19	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	7.1	5.3	13	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	7.4	4.6	20	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	11	7.1	18	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	34	23	15	43	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	77	24	10	50	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
o-xylene	µg/kg	5	MCERTS	-	-	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	< 5.0
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	700	< 10	< 10	180	-
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	-
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	-	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	-	39
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	-	-	41
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	-	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	-	< 10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	-	24
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	-	-	32

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528536	2528537	2528538	2528539	2528540
Sample Reference				DS205	DS206	DS206	DS206	DS208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.40	0.80-0.90	1.60-1.70	2.10-2.30	2.40-2.60
Date Sampled				22/11/2022	22/11/2022	22/11/2022	22/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	5	NONE	-	-	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	-	-	-
Styrene	µg/kg	5	ISO 17025	-	-	-	-	-
Tribromomethane	µg/kg	5	NONE	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Butylbenzene	µg/kg	5	NONE	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528536	2528537	2528538	2528539	2528540
Sample Reference				DS205	DS206	DS206	DS206	DS208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.40	0.80-0.90	1.60-1.70	2.10-2.30	2.40-2.60
Date Sampled				22/11/2022	22/11/2022	22/11/2022	22/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528536	2528537	2528538	2528539	2528540
Sample Reference				DS205	DS206	DS206	DS206	DS208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.40	0.80-0.90	1.60-1.70	2.10-2.30	2.40-2.60
Date Sampled				22/11/2022	22/11/2022	22/11/2022	22/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528536	2528537	2528538	2528539	2528540
Sample Reference				DS205	DS206	DS206	DS206	DS208
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.20-2.40	0.80-0.90	1.60-1.70	2.10-2.30	2.40-2.60
Date Sampled				22/11/2022	22/11/2022	22/11/2022	22/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	-	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528541	2528542	2528543	2528544	2528545
Sample Reference				BH09	BH09	BH09	BH09	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	3.40-3.50	4.10-4.20	5.90-6.00	7.90-8.00
Date Sampled				22/11/2022	24/11/2022	24/11/2022	24/11/2022	24/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	21	14	23	26
Total mass of sample received	kg	0.001	NONE	1.1	0.9	0.9	0.9	0.9
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	N/A	SZS	SZS	SSZ	SSZ

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	8.1	7.9	8.5	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.9	1.2
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	1.9	1.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.037	0.088	0.28	0.83	0.43
Total Sulphur	mg/kg	50	MCERTS	320	380	730	2300	3200
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.013	0.014	0.0091	0.025	0.038
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	< 0.120	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.44	0.56*	< 0.05*	< 0.05*	0.53*
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*	0.25*	0.59*
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	< 0.05*	0.34*	0.49*
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	0.23*	1.4*	2*
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	0.07*	0.33*	0.59*
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.12*	0.3*	1.5*	3.1*
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.12*	0.28*	1.3*	2.9*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.05*	0.11*	0.5*	1.2*
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	0.13*	0.48*	1.3*
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.08*	0.14*	0.57*	1.5*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05*	0.1*	0.24*	0.74*
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.07*	0.11*	0.43*	1.3*
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	< 0.05*	0.23*	0.62*
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	< 0.05*	< 0.05*	0.16*
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	< 0.05*	0.23*	0.76*

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	1*	1.47*	7.76*	17.7*

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528541	2528542	2528543	2528544	2528545
Sample Reference				BH09	BH09	BH09	BH09	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	3.40-3.50	4.10-4.20	5.90-6.00	7.90-8.00
Date Sampled				22/11/2022	24/11/2022	24/11/2022	24/11/2022	24/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	15	12	13	18
Barium (aqua regia extractable)	mg/kg	1	MCERTS	53	63	45	100	88
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.86	0.9	0.75	0.57	0.75
Boron (water soluble)	mg/kg	0.2	MCERTS	1.4	0.8	0.4	2.7	3.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.8
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	25	20	18	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	13	12	27	200
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	15	11	50	54
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	17	21	17	15	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	37	40	33	27	36
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	42	49	40	99	150
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
o-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	-	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	110	37	300	560
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	3.6
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	60	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	62	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	28	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	31	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528541	2528542	2528543	2528544	2528545
Sample Reference				BH09	BH09	BH09	BH09	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	3.40-3.50	4.10-4.20	5.90-6.00	7.90-8.00
Date Sampled				22/11/2022	24/11/2022	24/11/2022	24/11/2022	24/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Chloroethane	µg/kg	5	NONE	-	< 5.0	-	-	-
Bromomethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	< 5.0	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	< 5.0	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	< 5.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	< 5.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	-	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Trichloromethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	< 5.0	-	-	-
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Tetrachloromethane	µg/kg	5	NONE	-	< 5.0	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Tetrachloroethene	µg/kg	5	NONE	-	< 5.0	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
p & m-Xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Styrene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Tribromomethane	µg/kg	5	NONE	-	< 5.0	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Bromobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	8.5*	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	39	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	6.2	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Butylbenzene	µg/kg	5	NONE	-	< 5.0	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528541	2528542	2528543	2528544	2528545
Sample Reference				BH09	BH09	BH09	BH09	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	3.40-3.50	4.10-4.20	5.90-6.00	7.90-8.00
Date Sampled				22/11/2022	24/11/2022	24/11/2022	24/11/2022	24/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	< 5.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	< 5.0	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528541	2528542	2528543	2528544	2528545
Sample Reference				BH09	BH09	BH09	BH09	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	3.40-3.50	4.10-4.20	5.90-6.00	7.90-8.00
Date Sampled				22/11/2022	24/11/2022	24/11/2022	24/11/2022	24/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	0.3*	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2*	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1*	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1*	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1*	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	< 0.05*	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	< 0.2*	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	< 0.3*	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	0.56*	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	< 0.1*	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	< 0.1*	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	< 0.1*	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	< 0.1*	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	< 0.2*	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	< 0.1*	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	< 0.1*	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	< 0.1*	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	< 0.1*	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	< 0.2*	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	< 0.2*	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	< 0.3*	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	< 0.2*	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	< 0.3*	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	< 0.2*	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	< 0.3*	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	0.12*	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	0.12*	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	< 0.3*	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	0.05*	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	0.08*	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05*	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	0.07*	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528541	2528542	2528543	2528544	2528545
Sample Reference				BH09	BH09	BH09	BH09	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	3.40-3.50	4.10-4.20	5.90-6.00	7.90-8.00
Date Sampled				22/11/2022	24/11/2022	24/11/2022	24/11/2022	24/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05*	-	-	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	< 0.001	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	-	< 0.001	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	-	< 0.001	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	< 0.001	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	-	< 0.001	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	-	< 0.001	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	-	< 0.001	-	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	< 0.007	-	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528546	2528547	2528548	2528549	2528550
Sample Reference				BH05	BH05A	BH05A	BH05A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	1.60	2.60	5.10-5.20
Date Sampled				28/11/2022	28/11/2022	28/11/2022	28/11/2022	29/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	-	-	-	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	-	-	-	33	57
Total mass of sample received	kg	0.001	NONE	-	-	-	0.9	1
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SSZ	SSZ	SSZ	SSZ	SSZ
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	-	7.6	-
Total Cyanide	mg/kg	1	MCERTS	-	-	-	< 1.0	-
Complex Cyanide	mg/kg	1	MCERTS	-	-	-	< 1.0	-
Free Cyanide	mg/kg	1	MCERTS	-	-	-	< 1.0	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	0.82	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	9900	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	0.033	-
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	-	-	< 0.120
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	< 1.0	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	0.37	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	0.11	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.54	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.17	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.77	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.76	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	0.37	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.44	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.5	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.16	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.34	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.2	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	0.24	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	4.97	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528546	2528547	2528548	2528549	2528550
Sample Reference				BH05	BH05A	BH05A	BH05A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	1.60	2.60	5.10-5.20
Date Sampled				28/11/2022	28/11/2022	28/11/2022	28/11/2022	29/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	13	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	82	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	0.71	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	2.6	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	-	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	30	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	130	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	31	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	26	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	29	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	360	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
o-xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	< 5.0	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	-	-	-	550	-
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	-	-	-	< 0.1	-
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	-	75	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	140	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	-	130	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	-	340	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	-	20	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	62	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	-	66	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	-	150	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528546	2528547	2528548	2528549	2528550
Sample Reference				BH05	BH05A	BH05A	BH05A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	1.60	2.60	5.10-5.20
Date Sampled				28/11/2022	28/11/2022	28/11/2022	28/11/2022	29/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Chloroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	< 5.0	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	< 5.0	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	< 5.0	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
Benzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Tetrachloromethane	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Toluene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
Styrene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Tribromomethane	µg/kg	5	NONE	-	-	-	< 5.0	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	< 5.0	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Butylbenzene	µg/kg	5	NONE	-	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528546	2528547	2528548	2528549	2528550
Sample Reference				BH05	BH05A	BH05A	BH05A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	1.60	2.60	5.10-5.20
Date Sampled				28/11/2022	28/11/2022	28/11/2022	28/11/2022	29/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	< 5.0	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	< 5.0	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528546	2528547	2528548	2528549	2528550
Sample Reference				BH05	BH05A	BH05A	BH05A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	1.60	2.60	5.10-5.20
Date Sampled				28/11/2022	28/11/2022	28/11/2022	28/11/2022	29/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	0.37	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	0.3	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	0.11	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	0.54	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	0.17	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	0.2	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.77	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.76	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	0.37	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	0.44	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.5	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	0.16	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.34	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528546	2528547	2528548	2528549	2528550
Sample Reference				BH05	BH05A	BH05A	BH05A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.30	0.40	1.60	2.60	5.10-5.20
Date Sampled				28/11/2022	28/11/2022	28/11/2022	28/11/2022	29/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	0.2	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	0.24	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-	< 0.001	-
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	< 0.001	-
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	< 0.001	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	< 0.001	-
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	< 0.001	-
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	< 0.001	-
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	< 0.001	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	-	< 0.007	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528551	2528552	2528553	2528554	2528555
Sample Reference				BH05A	BH05A	BH04A	BH04A	BH04A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	9.50-9.60	3.00-3.10	4.20-4.30	6.50-6.60
Date Sampled				29/11/2022	29/11/2022	30/11/2022	30/11/2022	01/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	-	< 0.1
Moisture Content	%	0.01	NONE	16	18	25	-	34
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	-	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SSZ	N/A	SSZ	SSZ	LFT

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	7.4	8.6	-	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	2.2
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	2.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.13	0.054	0.4	-	0.3
Total Sulphur	mg/kg	50	MCERTS	900	290	1500	-	1000
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0082	0.0087	0.027	-	0.027
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	-	-	< 0.120	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.44	0.41	0.67	-	0.71
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.16	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.52	< 0.05	1.9	-	0.09
Fluorene	mg/kg	0.05	MCERTS	0.49	< 0.05	2.3	-	0.06
Phenanthrene	mg/kg	0.05	MCERTS	4.8	< 0.05	15	-	0.32
Anthracene	mg/kg	0.05	MCERTS	1.4	< 0.05	6.9	-	0.09
Fluoranthene	mg/kg	0.05	MCERTS	12	< 0.05	23	-	0.61
Pyrene	mg/kg	0.05	MCERTS	10	< 0.05	19	-	0.58
Benzo(a)anthracene	mg/kg	0.05	MCERTS	4.3	< 0.05	10	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	3.6	< 0.05	7.7	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	5.1	< 0.05	10	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.3	< 0.05	2.7	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	4.3	< 0.05	8.1	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	2.1	< 0.05	3.8	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.46	< 0.05	1	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	2.5	< 0.05	3.9	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	53.2	< 0.80	117	-	2.46

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528551	2528552	2528553	2528554	2528555
Sample Reference				BH05A	BH05A	BH04A	BH04A	BH04A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	9.50-9.60	3.00-3.10	4.20-4.30	6.50-6.60
Date Sampled				29/11/2022	29/11/2022	30/11/2022	30/11/2022	01/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.2	14	19	-	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	68	64	99	-	90
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.22	1.1	1.1	-	0.97
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7	1.3	1.9	-	4.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	9.1	27	35	-	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	15	37	-	41
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	14	57	-	70
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.4	23	43	-	37
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	20	44	51	-	46
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	190	58	250	-	160
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
p & m-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	< 5.0
o-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	39
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	-	< 5.0
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	240	< 10	670	-	120
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	0.4	< 0.1	< 0.1	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	2.3	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	15	-	2.8
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	47	-	11
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	210	-	50
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	280	-	64
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001	-	0.081
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	14	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	96	-	10
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	170	-	33
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	280	-	44

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528551	2528552	2528553	2528554	2528555
Sample Reference				BH05A	BH05A	BH04A	BH04A	BH04A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	9.50-9.60	3.00-3.10	4.20-4.30	6.50-6.60
Date Sampled				29/11/2022	29/11/2022	30/11/2022	30/11/2022	01/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	5	NONE	-	-	-	-	-
Bromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	5	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	5	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	5	NONE	-	-	-	-	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Trichloroethene	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromomethane	µg/kg	5	ISO 17025	-	-	-	-	-
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	5	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	5	MCERTS	-	-	-	-	-
Styrene	µg/kg	5	ISO 17025	-	-	-	-	-
Tribromomethane	µg/kg	5	NONE	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	-	-	-
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Bromobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Butylbenzene	µg/kg	5	NONE	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528551	2528552	2528553	2528554	2528555
Sample Reference				BH05A	BH05A	BH04A	BH04A	BH04A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	9.50-9.60	3.00-3.10	4.20-4.30	6.50-6.60
Date Sampled				29/11/2022	29/11/2022	30/11/2022	30/11/2022	01/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-
Hexachlorobutadiene	µg/kg	5	NONE	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	-	-	-

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Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528551	2528552	2528553	2528554	2528555
Sample Reference				BH05A	BH05A	BH04A	BH04A	BH04A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	9.50-9.60	3.00-3.10	4.20-4.30	6.50-6.60
Date Sampled				29/11/2022	29/11/2022	30/11/2022	30/11/2022	01/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	-	-
Phenol	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-	-	-	-	-
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Methylphenol	mg/kg	0.2	NONE	-	-	-	-	-
Isophorone	mg/kg	0.2	MCERTS	-	-	-	-	-
2-Nitrophenol	mg/kg	0.3	NONE	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	-	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	-	-
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	-	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	-	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	-	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	-	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	NONE	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	NONE	-	-	-	-	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	-	-	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	-	-
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	-	-	-
Anthraquinone	mg/kg	0.3	NONE	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528551	2528552	2528553	2528554	2528555
Sample Reference				BH05A	BH05A	BH04A	BH04A	BH04A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	9.50-9.60	3.00-3.10	4.20-4.30	6.50-6.60
Date Sampled				29/11/2022	29/11/2022	30/11/2022	30/11/2022	01/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-	-	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	NONE	-	-	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	NONE	-	-	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	NONE	-	-	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	NONE	-	-	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	NONE	-	-	-	-	< 0.001

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-	-	-	-	< 0.007

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528556	2528557	2528558	2528559	2528560
Sample Reference				BH01	BH01	BH01	BH08	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	3.80-3.90	6.50-6.60	0.90-1.00	2.40-2.50
Date Sampled				01/12/2022	01/12/2022	02/12/2022	05/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	-	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	29	-	13	23
Total mass of sample received	kg	0.001	NONE	0.9	0.9	-	0.9	0.9
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	LFT	LFT	LFT	LFT	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	10.1	7.8	-	8	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.2	0.28	-	0.013	0.24
Total Sulphur	mg/kg	50	MCERTS	2900	3200	-	300	2700
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.011	0.026	-	0.0085	0.012
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	-	-	-	-	-
Calorific Value	MJ/Kg	0.12	ISO 17025	< 0.120	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.7*	0.59	-	0.58	0.18
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	< 0.05	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.41*	< 0.05	-	< 0.05	0.06
Fluorene	mg/kg	0.05	MCERTS	0.37*	0.11	-	< 0.05	0.07
Phenanthrene	mg/kg	0.05	MCERTS	2*	0.51	-	< 0.05	0.73
Anthracene	mg/kg	0.05	MCERTS	0.61*	0.08	-	< 0.05	0.2
Fluoranthene	mg/kg	0.05	MCERTS	5.7*	0.95	-	< 0.05	1.7
Pyrene	mg/kg	0.05	MCERTS	4.3*	0.78	-	< 0.05	1.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.3*	0.39	-	< 0.05	0.96
Chrysene	mg/kg	0.05	MCERTS	2.3*	0.43	-	< 0.05	0.73
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.2*	0.53*	-	< 0.05	1.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.2*	0.24*	-	< 0.05	0.37
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9*	0.4*	-	< 0.05	0.84
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.78*	0.2	-	< 0.05	0.41
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.15*	< 0.05	-	< 0.05	0.09
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.95*	0.21	-	< 0.05	0.45

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	25.8*	5.42*	-	< 0.80	9.29

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528556	2528557	2528558	2528559	2528560
Sample Reference				BH01	BH01	BH01	BH08	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	3.80-3.90	6.50-6.60	0.90-1.00	2.40-2.50
Date Sampled				01/12/2022	01/12/2022	02/12/2022	05/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	9.8	-	14	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	40	54	-	63	55
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.62	0.6	-	1.2	0.86
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	1.5	-	0.5	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	-	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	20	-	29	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	15	-	14	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	38	-	16	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	15	15	-	23	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	29	-	47	41
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	41	290	-	51	53
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
p & m-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
o-xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	< 5.0	-	-	-
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	150	130	-	< 10	45
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	< 0.001	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	< 2.0	7.6	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	8.2	16	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	64	63	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	74	87	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	< 0.001	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	10	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	30	18	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	42	27	-	-	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528556	2528557	2528558	2528559	2528560
Sample Reference				BH01	BH01	BH01	BH08	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	3.80-3.90	6.50-6.60	0.90-1.00	2.40-2.50
Date Sampled				01/12/2022	01/12/2022	02/12/2022	05/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Chloroethane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Bromomethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
2,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Trichloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Trans-1,2-dichloroethene	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Tetrachloromethane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Tetrachloroethene	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
1,2-Dibromoethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
p & m-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
Styrene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Tribromomethane	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	-	< 5.0
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Bromobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
2-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
tert-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
sec-Butylbenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Butylbenzene	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528556	2528557	2528558	2528559	2528560
Sample Reference				BH01	BH01	BH01	BH08	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	3.80-3.90	6.50-6.60	0.90-1.00	2.40-2.50
Date Sampled				01/12/2022	01/12/2022	02/12/2022	05/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	< 5.0	-	-	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	< 5.0	-	-	-	< 5.0

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
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Lab Sample Number				2528556	2528557	2528558	2528559	2528560
Sample Reference				BH01	BH01	BH01	BH08	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	3.80-3.90	6.50-6.60	0.90-1.00	2.40-2.50
Date Sampled				01/12/2022	01/12/2022	02/12/2022	05/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs								
Aniline	mg/kg	0.1	NONE	0.5*	-	-	-	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2*	-	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1*	-	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2*	-	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2*	-	-	-	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1*	-	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2*	-	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1*	-	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	ISO 17025	< 0.05*	-	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2*	-	-	-	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2*	-	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	< 0.3*	-	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	0.7*	-	-	-	0.18
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1*	-	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1*	-	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1*	-	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	< 0.1*	-	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	< 0.2*	-	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	0.1*	-	-	-	0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1*	-	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1*	-	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	< 0.1*	-	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05*	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.41*	-	-	-	0.06
2,4-Dinitrotoluene	mg/kg	0.2	NONE	< 0.2*	-	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	0.2*	-	-	-	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2*	-	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	< 0.2*	-	-	-	< 0.2
Fluorene	mg/kg	0.05	MCERTS	0.37*	-	-	-	0.07
Azobenzene	mg/kg	0.3	NONE	0.4*	-	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2*	-	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	2*	-	-	-	0.73
Anthracene	mg/kg	0.05	MCERTS	0.61*	-	-	-	0.2
Carbazole	mg/kg	0.3	MCERTS	< 0.3*	-	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	< 0.2*	-	-	-	< 0.2
Anthraquinone	mg/kg	0.3	NONE	< 0.3*	-	-	-	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	5.7*	-	-	-	1.7
Pyrene	mg/kg	0.05	MCERTS	4.3*	-	-	-	1.4
Butyl benzyl phthalate	mg/kg	0.3	NONE	< 0.3*	-	-	-	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.3*	-	-	-	0.96
Chrysene	mg/kg	0.05	MCERTS	2.3*	-	-	-	0.73
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.2*	-	-	-	1.1
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.2*	-	-	-	0.37
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.9*	-	-	-	0.84

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528556	2528557	2528558	2528559	2528560
Sample Reference				BH01	BH01	BH01	BH08	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	3.80-3.90	6.50-6.60	0.90-1.00	2.40-2.50
Date Sampled				01/12/2022	01/12/2022	02/12/2022	05/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.78*	-	-	-	0.41
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.15*	-	-	-	0.09
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.95*	-	-	-	0.45

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	< 0.001	-	-	-	-
PCB Congener 52	mg/kg	0.001	NONE	< 0.001	-	-	-	-
PCB Congener 101	mg/kg	0.001	NONE	< 0.001	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	< 0.001	-	-	-	-
PCB Congener 138	mg/kg	0.001	NONE	< 0.001	-	-	-	-
PCB Congener 153	mg/kg	0.001	NONE	< 0.001	-	-	-	-
PCB Congener 180	mg/kg	0.001	NONE	< 0.001	-	-	-	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	< 0.007	-	-	-	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528561
Sample Reference				BH08
Sample Number				None Supplied
Depth (m)				4.40-4.50
Date Sampled				05/12/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	49
Total mass of sample received	kg	0.001	NONE	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	LFT

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	U/S**
Total Cyanide	mg/kg	1	MCERTS	5.9
Complex Cyanide	mg/kg	1	MCERTS	5.9
Free Cyanide	mg/kg	1	MCERTS	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	U/S
Total Sulphur	mg/kg	50	MCERTS	1300
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-
Fraction Organic Carbon (FOC)	N/A	0.001	MCERTS	0.27
Calorific Value	MJ/Kg	0.12	ISO 17025	2.27

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	2.9

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	3.3
Acenaphthylene	mg/kg	0.05	MCERTS	0.07
Acenaphthene	mg/kg	0.05	MCERTS	0.54
Fluorene	mg/kg	0.05	MCERTS	0.47
Phenanthrene	mg/kg	0.05	MCERTS	0.72
Anthracene	mg/kg	0.05	MCERTS	0.11
Fluoranthene	mg/kg	0.05	MCERTS	0.54
Pyrene	mg/kg	0.05	MCERTS	0.5
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.27
Chrysene	mg/kg	0.05	MCERTS	0.22
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.27*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05*
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	7.01*

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528561
Sample Reference				BH08
Sample Number				None Supplied
Depth (m)				4.40-4.50
Date Sampled				05/12/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18
Barium (aqua regia extractable)	mg/kg	1	MCERTS	74
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.24
Boron (water soluble)	mg/kg	0.2	MCERTS	3.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.8
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	56
Copper (aqua regia extractable)	mg/kg	1	MCERTS	40
Lead (aqua regia extractable)	mg/kg	1	MCERTS	47
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	14
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	240
Monoaromatics & Oxygenates				
Benzene	µg/kg	5	MCERTS	-
Toluene	µg/kg	5	MCERTS	-
Ethylbenzene	µg/kg	5	MCERTS	-
p & m-xylene	µg/kg	5	MCERTS	-
o-xylene	µg/kg	5	MCERTS	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-
Petroleum Hydrocarbons				
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	3700
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	0.9
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528561
Sample Reference				BH08
Sample Number				None Supplied
Depth (m)				4.40-4.50
Date Sampled				05/12/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
VOCs				
Chloromethane	µg/kg	5	ISO 17025	-
Chloroethane	µg/kg	5	NONE	-
Bromomethane	µg/kg	5	ISO 17025	-
Vinyl Chloride	µg/kg	5	NONE	-
Trichlorofluoromethane	µg/kg	5	NONE	-
1,1-Dichloroethene	µg/kg	5	NONE	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-
1,1-Dichloroethane	µg/kg	5	ISO 17025	-
2,2-Dichloropropane	µg/kg	5	ISO 17025	-
Trichloromethane	µg/kg	5	ISO 17025	-
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-
1,2-Dichloroethane	µg/kg	5	ISO 17025	-
1,1-Dichloropropene	µg/kg	5	ISO 17025	-
Trans-1,2-dichloroethene	µg/kg	5	NONE	-
Benzene	µg/kg	5	MCERTS	-
Tetrachloromethane	µg/kg	5	NONE	-
1,2-Dichloropropane	µg/kg	5	ISO 17025	-
Trichloroethene	µg/kg	5	ISO 17025	-
Dibromomethane	µg/kg	5	ISO 17025	-
Bromodichloromethane	µg/kg	5	ISO 17025	-
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-
Toluene	µg/kg	5	MCERTS	-
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-
1,3-Dichloropropane	µg/kg	5	ISO 17025	-
Dibromochloromethane	µg/kg	5	ISO 17025	-
Tetrachloroethene	µg/kg	5	NONE	-
1,2-Dibromoethane	µg/kg	5	ISO 17025	-
Chlorobenzene	µg/kg	5	ISO 17025	-
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-
Ethylbenzene	µg/kg	5	MCERTS	-
p & m-Xylene	µg/kg	5	MCERTS	-
Styrene	µg/kg	5	ISO 17025	-
Tribromomethane	µg/kg	5	NONE	-
o-Xylene	µg/kg	5	MCERTS	-
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-
Isopropylbenzene	µg/kg	5	ISO 17025	-
Bromobenzene	µg/kg	5	ISO 17025	-
n-Propylbenzene	µg/kg	5	ISO 17025	-
2-Chlorotoluene	µg/kg	5	ISO 17025	-
4-Chlorotoluene	µg/kg	5	ISO 17025	-
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-
tert-Butylbenzene	µg/kg	5	ISO 17025	-
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-
sec-Butylbenzene	µg/kg	5	ISO 17025	-
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-
p-Isopropyltoluene	µg/kg	5	ISO 17025	-
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-
Butylbenzene	µg/kg	5	NONE	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528561
Sample Reference				BH08
Sample Number				None Supplied
Depth (m)				4.40-4.50
Date Sampled				05/12/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-
Hexachlorobutadiene	µg/kg	5	NONE	-
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528561
Sample Reference				BH08
Sample Number				None Supplied
Depth (m)				4.40-4.50
Date Sampled				05/12/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
SVOCs				
Aniline	mg/kg	0.1	NONE	-
Phenol	mg/kg	0.2	ISO 17025	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-
2-Methylphenol	mg/kg	0.3	MCERTS	-
Hexachloroethane	mg/kg	0.05	ISO 17025	-
Nitrobenzene	mg/kg	0.3	MCERTS	-
4-Methylphenol	mg/kg	0.2	NONE	-
Isophorone	mg/kg	0.2	MCERTS	-
2-Nitrophenol	mg/kg	0.3	NONE	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-
Naphthalene	mg/kg	0.05	MCERTS	-
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-
4-Chloroaniline	mg/kg	0.1	NONE	-
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-
Dibenzofuran	mg/kg	0.2	MCERTS	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	MCERTS	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-
4-Nitroaniline	mg/kg	0.2	NONE	-
Fluorene	mg/kg	0.05	MCERTS	-
Azobenzene	mg/kg	0.3	NONE	-
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-
Hexachlorobenzene	mg/kg	0.3	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Carbazole	mg/kg	0.3	MCERTS	-
Dibutyl phthalate	mg/kg	0.2	NONE	-
Anthraquinone	mg/kg	0.3	NONE	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Butyl benzyl phthalate	mg/kg	0.3	NONE	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2528561
Sample Reference				BH08
Sample Number				None Supplied
Depth (m)				4.40-4.50
Date Sampled				05/12/2022
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-

PCBs by GC-MS*

PCB Congener 28	mg/kg	0.001	NONE	-
PCB Congener 52	mg/kg	0.001	NONE	-
PCB Congener 101	mg/kg	0.001	NONE	-
PCB Congener 118	mg/kg	0.001	NONE	-
PCB Congener 138	mg/kg	0.001	NONE	-
PCB Congener 153	mg/kg	0.001	NONE	-
PCB Congener 180	mg/kg	0.001	NONE	-

Total PCBs by GC-MS*

Total PCBs	mg/kg	0.007	NONE	-

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

**U/S - Unsuitable for analysis, sample absorbed all water used for extraction.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI

Your Order No: 3619

Lab Sample Number				2528562	2528563	2528564	2528565	2528566
Sample Reference				DS217	DS219	DS216	BH07	BH07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.80-1.90	1.20-1.30	0.20-0.30	0.30	5.50-6.00
Date Sampled				15/11/2022	16/11/2022	16/11/2022	16/11/2022	16/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH (automated)	pH Units	N/A	ISO 17025	7.8	7.7	8.2	8	8.3
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4	mg/l	0.1	ISO 17025	274	588	3.9	1.8	9.5
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1	ISO 17025	3.9	< 1.0	< 1.0	1	10
Barium (dissolved)	µg/l	0.05	ISO 17025	87	23	10	11	16
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	270	< 10	18	< 10	350
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (dissolved)	µg/l	0.4	ISO 17025	0.6	< 0.4	1.8	1.7	3
Copper (dissolved)	µg/l	0.7	ISO 17025	9	9.4	6.9	17	24
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0	1.1	2.3	1.9
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	3	6	1.3	2	9.2
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	< 1.7	< 1.7	< 1.7	< 1.7	4.1
Zinc (dissolved)	µg/l	0.4	ISO 17025	13	14	6.6	13	22

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

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI

Your Order No: 3619

Lab Sample Number				2528567	2528568	2528569	2528570	2528571
Sample Reference				BH06	DS209	DS201	DS203	DS206
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.80	5.00-5.20	0.70-0.80	2.20-2.30	2.10-2.30
Date Sampled				16/11/2022	18/11/2022	21/11/2022	21/11/2022	22/11/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH (automated)	pH Units	N/A	ISO 17025	7.7	7.6	7.6	7.8	7.9
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO_4	mg/l	0.1	ISO 17025	615	602	191	516	413
Heavy Metals / Metalloids								
Arsenic (dissolved)	µg/l	1	ISO 17025	2.8	5.6	< 1.0	8.7	3.8
Barium (dissolved)	µg/l	0.05	ISO 17025	68	90	15	37	75
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	100	540	< 10	59	81
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4	1.8	0.4	0.8	0.8
Copper (dissolved)	µg/l	0.7	ISO 17025	7.2	18	4.6	10	11
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	2.5	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	5.9	25	1.2	5.8	4.6
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7
Zinc (dissolved)	µg/l	0.4	ISO 17025	17	29	18	13	16

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

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: 22-12526
Project / Site name: Oxfordshire RFI

Your Order No: 3619

Lab Sample Number				2528572	2528573	2528574	2528575
Sample Reference				BH05A	BH04A	BH01	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				7.80-7.90	6.50-6.60	3.80-3.90	4.40-4.50
Date Sampled				29/11/2022	01/12/2022	01/12/2022	05/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
General Inorganics							
pH (automated)	pH Units	N/A	ISO 17025	7.9	8.2	7.8	8.1
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10
Sulphate as SO_4	mg/l	0.1	ISO 17025	71.5	120	85.9	49.2
Heavy Metals / Metalloids							
Arsenic (dissolved)	µg/l	1	ISO 17025	5	18	1.7	7.1
Barium (dissolved)	µg/l	0.05	ISO 17025	23	1.8	59	20
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	350	400	64	270
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08	< 0.08	< 0.08	< 0.08
Chromium (dissolved)	µg/l	0.4	ISO 17025	1	1.3	1	2.4
Copper (dissolved)	µg/l	0.7	ISO 17025	9	35	12	37
Lead (dissolved)	µg/l	1	ISO 17025	3.8	3.8	< 1.0	8.7
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	7.5	34	3.8	16
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	2.8	< 1.7	1.8	< 1.7
Zinc (dissolved)	µg/l	0.4	ISO 17025	21	25	33	40

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

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Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

* 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 *
2528501	DS217	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2528502	DS217	None Supplied	1.80-1.90	Brown clay and sand with gravel and brick.
2528503	DS217	None Supplied	2.50-2.60	Grey clay and sand with vegetation.
2528504	DS218A	None Supplied	5.30-5.60	Brown clay and sand with plastic and vegetation.
2528505	DS219	None Supplied	1.20-1.30	Light grey clay and sand with gravel.
2528506	DS219	None Supplied	1.90-2.00	Light brown clay and sand with gravel and vegetation.
2528507	DS219A	None Supplied	1.70-1.80	Brown clay and sand with gravel.
2528508	DS216	None Supplied	0.20-0.30	Brown clay and sand with gravel and vegetation.
2528509	DS216	None Supplied	2.60-2.70	Brown clay and sand with gravel.
2528510	DS215	None Supplied	1.70-1.90	Brown clay and sand with gravel and vegetation.
2528511	BH07	None Supplied	0.3	Brown loam and clay with vegetation and stones.
2528512	BH07	None Supplied	0.85	Brown loam and clay with gravel and vegetation.
2528513	BH07	None Supplied	5.50-6.00	Brown clay and sand with gravel and vegetation.
2528515	BH06	None Supplied	1.9	Brown clay and sand with gravel.
2528516	BH06	None Supplied	2.8	Brown clay and sand with gravel.
2528517	BH06	None Supplied	5.00-5.50	Brown clay and sand with vegetation.
2528519	DS212	None Supplied	2.10-2.20	Brown clay and sand with gravel.
2528520	DS209	None Supplied	1.20-1.40	Brown clay and loam with gravel and vegetation.
2528521	DS209	None Supplied	3.00-3.20	Brown clay and sand with gravel and concrete.
2528522	DS209	None Supplied	5.00-5.20	Brown clay and sand with stones.
2528523	DS210	None Supplied	1.6	Brown clay and sand with gravel.
2528524	DS211	None Supplied	1.7	Brown clay and sand with gravel.
2528525	DS213	None Supplied	0.40-0.80	Brown clay and sand with gravel and vegetation.
2528526	DS213	None Supplied	1.80-1.90	Brown clay and sand with gravel.
2528527	DS201	None Supplied	0.70-0.80	Brown clay and sand with stones.
2528529	DS202	None Supplied	2.15-2.20	Brown clay and sand with gravel and plastic.
2528530	DS203	None Supplied	1.10-1.30	Brown clay and sand with gravel and vegetation.
2528531	DS203	None Supplied	2.20-2.30	Brown clay and sand with gravel and plastic.
2528532	DS207	None Supplied	0.20-0.30	Brown clay and loam with gravel and vegetation.
2528535	DS205	None Supplied	0.20-0.30	Brown clay and loam with gravel and vegetation.
2528536	DS205	None Supplied	2.20-2.40	Brown clay and loam with gravel and vegetation.
2528537	DS206	None Supplied	0.80-0.90	Brown clay and sand with gravel.
2528538	DS206	None Supplied	1.60-1.70	Grey clay and sand with gravel.
2528539	DS206	None Supplied	2.10-2.30	Brown clay and loam with gravel and vegetation.
2528540	DS208	None Supplied	2.40-2.60	Brown clay and sand with gravel and plastic.
2528541	BH09	None Supplied	0.3	Brown clay and sand with gravel and vegetation.
2528542	BH09	None Supplied	3.40-3.50	Brown clay and sand with gravel and vegetation.
2528543	BH09	None Supplied	4.10-4.20	Brown clay and sand with gravel.
2528544	BH09	None Supplied	5.90-6.00	Grey clay and sand with gravel and plastic.
2528545	BH09	None Supplied	7.90-8.00	Brown clay and sand with gravel and plastic.
2528549	BH05A	None Supplied	2.6	Brown clay and sand with gravel and paper.
2528550	BH05A	None Supplied	5.10-5.20	Brown clay and sand with gravel and plastic.
2528551	BH05A	None Supplied	7.80-7.90	Light grey gravelly clay with gravel.
2528552	BH05A	None Supplied	9.50-9.60	Brown clay and sand with gravel.
2528553	BH04A	None Supplied	3.00-3.10	Brown clay and sand with gravel and plastic.
2528555	BH04A	None Supplied	6.50-6.60	Brown clay and sand with gravel and plastic.
2528556	BH01	None Supplied	1.80-1.90	Brown clay and sand with gravel.
2528557	BH01	None Supplied	3.80-3.90	Grey clay and sand with gravel and plastic.
2528559	BH08	None Supplied	0.90-1.00	Brown sandy clay with gravel.
2528560	BH08	None Supplied	2.40-2.50	Light grey clay with gravel.
2528561	BH08	None Supplied	4.40-4.50	Light grey clay and sand with gravel and plastic.

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, 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
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
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Boron in leachate	Determination of boron in leachate. Sample acidified and followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Fraction of Organic Carbon in soil	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
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
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	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate (automated)	Determination of pH in leachate by electrometric measurement.	In house method.	L099B	W	ISO 17025
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
TPH2 (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	NONE
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Calorific Value of soil	Determination of the calorific value of soil by combustion in a controlled environment.	Calorific Value of Soil by Bomb Calorimeter	L013-PL	D	ISO 17025
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
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
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

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Sample Deviation Report

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH01	None Supplied	S	2528556	c	Free cyanide in soil	L080-PL	c
BH01	None Supplied	S	2528556	c	Complex Cyanide in soil	L080-PL	c
BH01	None Supplied	S	2528556	c	Total cyanide in soil	L080-PL	c
BH01	None Supplied	S	2528557	c	Free cyanide in soil	L080-PL	c
BH01	None Supplied	S	2528557	c	Complex Cyanide in soil	L080-PL	c
BH01	None Supplied	S	2528557	c	Total cyanide in soil	L080-PL	c
BH04A	None Supplied	S	2528553	c	Free cyanide in soil	L080-PL	c
BH04A	None Supplied	S	2528553	c	Complex Cyanide in soil	L080-PL	c
BH04A	None Supplied	S	2528553	c	Total cyanide in soil	L080-PL	c
BH04A	None Supplied	S	2528555	c	Free cyanide in soil	L080-PL	c
BH04A	None Supplied	S	2528555	c	Complex Cyanide in soil	L080-PL	c
BH04A	None Supplied	S	2528555	c	Total cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528549	c	Free cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528549	c	Complex Cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528549	c	Total cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528551	c	Free cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528551	c	Complex Cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528551	c	Total cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528552	c	Free cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528552	c	Complex Cyanide in soil	L080-PL	c
BH05A	None Supplied	S	2528552	c	Total cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528515	c	Free cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528515	c	Complex Cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528515	c	Monohydric phenols in soil	L080-PL	c
BH06	None Supplied	S	2528515	c	Speciated EPA-16 PAHs in soil	L064-PL	c
BH06	None Supplied	S	2528515	c	TPH Banding in Soil by FID	L076-PL	c
BH06	None Supplied	S	2528515	c	TPH2 (Soil)	L088-PL	c
BH06	None Supplied	S	2528515	c	Total cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528516	c	Free cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528516	c	Complex Cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528516	c	Monohydric phenols in soil	L080-PL	c
BH06	None Supplied	S	2528516	c	PCB's By GC-MS in soil	L027-PL	c
BH06	None Supplied	S	2528516	c	Semi-volatile organic compounds in soil	L064-PL	c
BH06	None Supplied	S	2528516	c	Speciated EPA-16 PAHs in soil	L064-PL	c
BH06	None Supplied	S	2528516	c	TPH Banding in Soil by FID	L076-PL	c
BH06	None Supplied	S	2528516	c	TPH2 (Soil)	L088-PL	c
BH06	None Supplied	S	2528516	c	Total cyanide in soil	L080-PL	c
BH06	None Supplied	S	2528516	c	Volatile organic compounds in soil	L073B-PL	c
BH06	None Supplied	S	2528517	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
BH06	None Supplied	S	2528517	c	TPHCWG (Soil)	L088/76-PL	c
BH07	None Supplied	S	2528511	c	Free cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528511	c	Complex Cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528511	c	Monohydric phenols in soil	L080-PL	c
BH07	None Supplied	S	2528511	c	Speciated EPA-16 PAHs in soil	L064-PL	c
BH07	None Supplied	S	2528511	c	TPH Banding in Soil by FID	L076-PL	c
BH07	None Supplied	S	2528511	c	TPH2 (Soil)	L088-PL	c
BH07	None Supplied	S	2528511	c	Total cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528512	c	Free cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528512	c	Complex Cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528512	c	Monohydric phenols in soil	L080-PL	c
BH07	None Supplied	S	2528512	c	Speciated EPA-16 PAHs in soil	L064-PL	c
BH07	None Supplied	S	2528512	c	TPH Banding in Soil by FID	L076-PL	c
BH07	None Supplied	S	2528512	c	TPH2 (Soil)	L088-PL	c
BH07	None Supplied	S	2528512	c	Total cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528513	c	Free cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528513	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
BH07	None Supplied	S	2528513	c	Complex Cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528513	c	Monohydric phenols in soil	L080-PL	c
BH07	None Supplied	S	2528513	c	PCB's By GC-MS in soil	L027-PL	c

Sample Deviation Report

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH07	None Supplied	S	2528513	c	Semi-volatile organic compounds in soil	L064-PL	c
BH07	None Supplied	S	2528513	c	Speciated EPA-16 PAHs in soil	L064-PL	c
BH07	None Supplied	S	2528513	c	TPH Banding in Soil by FID	L076-PL	c
BH07	None Supplied	S	2528513	c	TPH2 (Soil)	L088-PL	c
BH07	None Supplied	S	2528513	c	TPHCWG (Soil)	L088/76-PL	c
BH07	None Supplied	S	2528513	c	Total cyanide in soil	L080-PL	c
BH07	None Supplied	S	2528513	c	Volatile organic compounds in soil	L073B-PL	c
BH09	None Supplied	S	2528541	c	Free cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528541	c	Complex Cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528541	c	Total cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528542	c	Free cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528542	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
BH09	None Supplied	S	2528542	c	Complex Cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528542	c	Total cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528542	c	Volatile organic compounds in soil	L073B-PL	c
BH09	None Supplied	S	2528543	c	Free cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528543	c	Complex Cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528543	c	Total cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528544	c	Free cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528544	c	Complex Cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528544	c	Total cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528545	c	Free cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528545	c	Complex Cyanide in soil	L080-PL	c
BH09	None Supplied	S	2528545	c	Total cyanide in soil	L080-PL	c
DS201	None Supplied	S	2528527	c	Free cyanide in soil	L080-PL	c
DS201	None Supplied	S	2528527	c	Complex Cyanide in soil	L080-PL	c
DS201	None Supplied	S	2528527	c	Total cyanide in soil	L080-PL	c
DS202	None Supplied	S	2528529	c	Free cyanide in soil	L080-PL	c
DS202	None Supplied	S	2528529	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
DS202	None Supplied	S	2528529	c	Complex Cyanide in soil	L080-PL	c
DS202	None Supplied	S	2528529	c	Total cyanide in soil	L080-PL	c
DS202	None Supplied	S	2528529	c	Volatile organic compounds in soil	L073B-PL	c
DS203	None Supplied	S	2528530	c	Free cyanide in soil	L080-PL	c
DS203	None Supplied	S	2528530	c	Complex Cyanide in soil	L080-PL	c
DS203	None Supplied	S	2528530	c	Total cyanide in soil	L080-PL	c
DS203	None Supplied	S	2528531	c	Free cyanide in soil	L080-PL	c
DS203	None Supplied	S	2528531	c	Complex Cyanide in soil	L080-PL	c
DS203	None Supplied	S	2528531	c	Total cyanide in soil	L080-PL	c
DS205	None Supplied	S	2528535	c	Free cyanide in soil	L080-PL	c
DS205	None Supplied	S	2528535	c	Complex Cyanide in soil	L080-PL	c
DS205	None Supplied	S	2528535	c	Total cyanide in soil	L080-PL	c
DS205	None Supplied	S	2528536	c	Free cyanide in soil	L080-PL	c
DS205	None Supplied	S	2528536	c	Complex Cyanide in soil	L080-PL	c
DS205	None Supplied	S	2528536	c	Total cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528537	c	Free cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528537	c	Complex Cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528537	c	Total cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528538	c	Free cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528538	c	Complex Cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528538	c	Total cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528539	c	Free cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528539	c	Complex Cyanide in soil	L080-PL	c
DS206	None Supplied	S	2528539	c	Total cyanide in soil	L080-PL	c
DS207	None Supplied	S	2528532	c	Free cyanide in soil	L080-PL	c
DS207	None Supplied	S	2528532	c	Complex Cyanide in soil	L080-PL	c
DS207	None Supplied	S	2528532	c	Total cyanide in soil	L080-PL	c
DS208	None Supplied	S	2528540	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
DS209	None Supplied	S	2528520	c	Free cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528520	c	Complex Cyanide in soil	L080-PL	c

Sample Deviation Report

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
DS209	None Supplied	S	2528520	c	Monohydric phenols in soil	L080-PL	c
DS209	None Supplied	S	2528520	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS209	None Supplied	S	2528520	c	TPH Banding in Soil by FID	L076-PL	c
DS209	None Supplied	S	2528520	c	TPH2 (Soil)	L088-PL	c
DS209	None Supplied	S	2528520	c	Total cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528521	c	Free cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528521	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
DS209	None Supplied	S	2528521	c	Complex Cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528521	c	Monohydric phenols in soil	L080-PL	c
DS209	None Supplied	S	2528521	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS209	None Supplied	S	2528521	c	TPH Banding in Soil by FID	L076-PL	c
DS209	None Supplied	S	2528521	c	TPH2 (Soil)	L088-PL	c
DS209	None Supplied	S	2528521	c	TPHCWG (Soil)	L088/76-PL	c
DS209	None Supplied	S	2528521	c	Total cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528522	c	Free cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528522	c	Complex Cyanide in soil	L080-PL	c
DS209	None Supplied	S	2528522	c	Monohydric phenols in soil	L080-PL	c
DS209	None Supplied	S	2528522	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS209	None Supplied	S	2528522	c	TPH Banding in Soil by FID	L076-PL	c
DS209	None Supplied	S	2528522	c	TPH2 (Soil)	L088-PL	c
DS209	None Supplied	S	2528522	c	Total cyanide in soil	L080-PL	c
DS210	None Supplied	S	2528523	c	Free cyanide in soil	L080-PL	c
DS210	None Supplied	S	2528523	c	Complex Cyanide in soil	L080-PL	c
DS210	None Supplied	S	2528523	c	Monohydric phenols in soil	L080-PL	c
DS210	None Supplied	S	2528523	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS210	None Supplied	S	2528523	c	TPH Banding in Soil by FID	L076-PL	c
DS210	None Supplied	S	2528523	c	TPH2 (Soil)	L088-PL	c
DS210	None Supplied	S	2528523	c	Total cyanide in soil	L080-PL	c
DS211	None Supplied	S	2528524	c	Semi-volatile organic compounds in soil	L064-PL	c
DS211	None Supplied	S	2528524	c	Volatile organic compounds in soil	L073B-PL	c
DS212	None Supplied	S	2528519	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
DS212	None Supplied	S	2528519	c	PCB's By GC-MS in soil	L027-PL	c
DS212	None Supplied	S	2528519	c	Semi-volatile organic compounds in soil	L064-PL	c
DS212	None Supplied	S	2528519	c	TPHCWG (Soil)	L088/76-PL	c
DS212	None Supplied	S	2528519	c	Volatile organic compounds in soil	L073B-PL	c
DS213	None Supplied	S	2528525	c	Free cyanide in soil	L080-PL	c
DS213	None Supplied	S	2528525	c	Complex Cyanide in soil	L080-PL	c
DS213	None Supplied	S	2528525	c	Monohydric phenols in soil	L080-PL	c
DS213	None Supplied	S	2528525	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS213	None Supplied	S	2528525	c	TPH Banding in Soil by FID	L076-PL	c
DS213	None Supplied	S	2528525	c	TPH2 (Soil)	L088-PL	c
DS213	None Supplied	S	2528525	c	Total cyanide in soil	L080-PL	c
DS213	None Supplied	S	2528526	c	Free cyanide in soil	L080-PL	c
DS213	None Supplied	S	2528526	c	Complex Cyanide in soil	L080-PL	c
DS213	None Supplied	S	2528526	c	Monohydric phenols in soil	L080-PL	c
DS213	None Supplied	S	2528526	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS213	None Supplied	S	2528526	c	TPH Banding in Soil by FID	L076-PL	c
DS213	None Supplied	S	2528526	c	TPH2 (Soil)	L088-PL	c
DS213	None Supplied	S	2528526	c	Total cyanide in soil	L080-PL	c
DS215	None Supplied	S	2528510	c	PCB's By GC-MS in soil	L027-PL	c
DS216	None Supplied	S	2528508	c	Free cyanide in soil	L080-PL	c
DS216	None Supplied	S	2528508	c	Complex Cyanide in soil	L080-PL	c
DS216	None Supplied	S	2528508	c	Monohydric phenols in soil	L080-PL	c
DS216	None Supplied	S	2528508	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS216	None Supplied	S	2528508	c	TPH Banding in Soil by FID	L076-PL	c
DS216	None Supplied	S	2528508	c	TPH2 (Soil)	L088-PL	c
DS216	None Supplied	S	2528508	c	Total cyanide in soil	L080-PL	c
DS216	None Supplied	S	2528509	c	Free cyanide in soil	L080-PL	c
DS216	None Supplied	S	2528509	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c

Sample Deviation Report

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
DS216	None Supplied	S	2528509	c	Complex Cyanide in soil	L080-PL	c
DS216	None Supplied	S	2528509	c	Monohydric phenols in soil	L080-PL	c
DS216	None Supplied	S	2528509	c	PCB's By GC-MS in soil	L027-PL	c
DS216	None Supplied	S	2528509	c	Semi-volatile organic compounds in soil	L064-PL	c
DS216	None Supplied	S	2528509	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS216	None Supplied	S	2528509	c	TPH Banding in Soil by FID	L076-PL	c
DS216	None Supplied	S	2528509	c	TPH2 (Soil)	L088-PL	c
DS216	None Supplied	S	2528509	c	TPHCWG (Soil)	L088/76-PL	c
DS216	None Supplied	S	2528509	c	Total cyanide in soil	L080-PL	c
DS216	None Supplied	S	2528509	c	Volatile organic compounds in soil	L073B-PL	c
DS217	None Supplied	S	2528501	c	Free cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528501	c	Complex Cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528501	c	Monohydric phenols in soil	L080-PL	c
DS217	None Supplied	S	2528501	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS217	None Supplied	S	2528501	c	TPH Banding in Soil by FID	L076-PL	c
DS217	None Supplied	S	2528501	c	TPH2 (Soil)	L088-PL	c
DS217	None Supplied	S	2528501	c	Total cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528502	c	Free cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528502	c	Complex Cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528502	c	Monohydric phenols in soil	L080-PL	c
DS217	None Supplied	S	2528502	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS217	None Supplied	S	2528502	c	TPH Banding in Soil by FID	L076-PL	c
DS217	None Supplied	S	2528502	c	TPH2 (Soil)	L088-PL	c
DS217	None Supplied	S	2528502	c	Total cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528503	c	Free cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528503	c	Complex Cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528503	c	Monohydric phenols in soil	L080-PL	c
DS217	None Supplied	S	2528503	c	PCB's By GC-MS in soil	L027-PL	c
DS217	None Supplied	S	2528503	c	Semi-volatile organic compounds in soil	L064-PL	c
DS217	None Supplied	S	2528503	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS217	None Supplied	S	2528503	c	TPH Banding in Soil by FID	L076-PL	c
DS217	None Supplied	S	2528503	c	TPH2 (Soil)	L088-PL	c
DS217	None Supplied	S	2528503	c	Total cyanide in soil	L080-PL	c
DS217	None Supplied	S	2528503	c	Volatile organic compounds in soil	L073B-PL	c
DS218A	None Supplied	S	2528504	c	Free cyanide in soil	L080-PL	c
DS218A	None Supplied	S	2528504	c	Complex Cyanide in soil	L080-PL	c
DS218A	None Supplied	S	2528504	c	Monohydric phenols in soil	L080-PL	c
DS218A	None Supplied	S	2528504	c	PCB's By GC-MS in soil	L027-PL	c
DS218A	None Supplied	S	2528504	c	Semi-volatile organic compounds in soil	L064-PL	c
DS218A	None Supplied	S	2528504	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS218A	None Supplied	S	2528504	c	TPH Banding in Soil by FID	L076-PL	c
DS218A	None Supplied	S	2528504	c	TPH2 (Soil)	L088-PL	c
DS218A	None Supplied	S	2528504	c	Total cyanide in soil	L080-PL	c
DS218A	None Supplied	S	2528504	c	Volatile organic compounds in soil	L073B-PL	c
DS219	None Supplied	S	2528505	c	Free cyanide in soil	L080-PL	c
DS219	None Supplied	S	2528505	c	Complex Cyanide in soil	L080-PL	c
DS219	None Supplied	S	2528505	c	Monohydric phenols in soil	L080-PL	c
DS219	None Supplied	S	2528505	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS219	None Supplied	S	2528505	c	TPH Banding in Soil by FID	L076-PL	c
DS219	None Supplied	S	2528505	c	TPH2 (Soil)	L088-PL	c
DS219	None Supplied	S	2528505	c	Total cyanide in soil	L080-PL	c
DS219	None Supplied	S	2528506	c	Free cyanide in soil	L080-PL	c
DS219	None Supplied	S	2528506	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
DS219	None Supplied	S	2528506	c	Complex Cyanide in soil	L080-PL	c
DS219	None Supplied	S	2528506	c	Monohydric phenols in soil	L080-PL	c
DS219	None Supplied	S	2528506	c	PCB's By GC-MS in soil	L027-PL	c
DS219	None Supplied	S	2528506	c	Semi-volatile organic compounds in soil	L064-PL	c
DS219	None Supplied	S	2528506	c	Speciated EPA-16 PAHs in soil	L064-PL	c
DS219	None Supplied	S	2528506	c	TPH Banding in Soil by FID	L076-PL	c

Sample Deviation Report

Analytical Report Number : 22-12526
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
DS219	None Supplied	S	2528506	c	TPH2 (Soil)	L088-PL	c
DS219	None Supplied	S	2528506	c	TPHCWG (Soil)	L088/76-PL	c
DS219	None Supplied	S	2528506	c	Total cyanide in soil	L080-PL	c
DS219	None Supplied	S	2528506	c	Volatile organic compounds in soil	L073B-PL	c

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Analytical Report Number : 22-12538

Project / Site name:	Oxfordshire RFI	**Samples received on:**	07/12/2022
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	09/12/2022
Your order number:	3619	**Analysis completed by:**	30/12/2022
Report Issue Number:	1	**Report issued on:**	30/12/2022
Samples Analysed:	7 10:1 WAC Samples		

Signed: [redacted]

[redacted]
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**						
					Client:	**BWBCONSULT**	
Location	**Oxfordshire RFI**						
Lab Reference (Sample Number)	2528632 / 2528633				**Landfill Waste Acceptance Criteria**		
					Limits		
Sampling Date	15/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	DS217						
Depth (m)	1.80-1.90						
Solid Waste Analysis							
TOC (%)**	1.7				3%	5%	6%
Loss on Ignition (%) **	6.1				--	--	10%
BTEX (µg/kg)	< 5.0				6000	--	--
Sum of PCBs (mg/kg)	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	47				500	--	--
Total PAH (WAC-17) (mg/kg)	7.54				100	--	--
pH (units)**	7.6				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	4.0				--	To be evaluated	To be evaluated
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test		
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0020			0.0150	0.5	2	25
Barium *	0.0817			0.629	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	< 0.0004			< 0.0040	0.5	10	70
Copper *	0.0069			0.053	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0089			0.0683	0.5	10	30
Nickel *	0.0009			0.0066	0.4	10	40
Lead *	< 0.0010			< 0.010	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 *	0.015			0.11	4	50	200
Chloride *	1.1			8.2	800	15000	25000
Fluoride*	0.53			4.0	10	150	500
Sulphate *	110			830	1000	20000	50000
TDS*	240			1800	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	7.56			58.1	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.90						
Dry Matter (%)	80						
Moisture (%)	20						

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 discrepencies 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.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**						
					Client:	**BWBCONSULT**	
Location	**Oxfordshire RFI**						
Lab Reference (Sample Number)	2528634 / 2528635				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	15/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	DS218A						
Depth (m)	5.30-5.60						
Solid Waste Analysis							
TOC (%)**	5.1				3%	5%	6%
Loss on Ignition (%) **	9.5				--	--	10%
BTEX (µg/kg)	< 5.0				6000	--	--
Sum of PCBs (mg/kg)	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	2800				500	--	--
Total PAH (WAC-17) (mg/kg)	9.89				100	--	--
pH (units)**	8.3				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	19				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0024			0.0215	0.5	2	25
Barium *	0.0139			0.124	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0014			0.012	0.5	10	70
Copper *	0.0074			0.066	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0149			0.132	0.5	10	30
Nickel *	0.0044			0.040	0.4	10	40
Lead *	< 0.0010			< 0.010	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 *	0.0058			0.052	4	50	200
Chloride *	4.1			36	800	15000	25000
Fluoride*	0.36			3.2	10	150	500
Sulphate *	31			280	1000	20000	50000
TDS*	160			1400	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	8.98			79.9	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.90						
Dry Matter (%)	61						
Moisture (%)	39						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

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** = MCERTS accredited

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**						
					Client:	**BWBCONSULT**	
Location	**Oxfordshire RFI**						
Lab Reference (Sample Number)	2528636 / 2528637				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	16/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	BH06						
Depth (m)	1.00						
Solid Waste Analysis							
TOC (%)**	1.1				3%	5%	6%
Loss on Ignition (%) **	4.3				--	--	10%
BTEX (µg/kg)	< 5.0				6000	--	--
Sum of PCBs (mg/kg)	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	8.0				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	3.1				--	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 using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
	mg/l			mg/kg			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25
Barium *	0.0228			0.188	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	< 0.0004			< 0.0040	0.5	10	70
Copper *	0.0039			0.032	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	< 0.0004			< 0.0040	0.5	10	30
Nickel *	0.0003			< 0.0030	0.4	10	40
Lead *	0.0014			0.011	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 *	0.014			0.11	4	50	200
Chloride *	0.83			6.8	800	15000	25000
Fluoride*	0.15			1.3	10	150	500
Sulphate *	790			6500	1000	20000	50000
TDS*	850			7000	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	3.66			30.2	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.90						
Dry Matter (%)	83						
Moisture (%)	17						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**							
					Client:	**BWBCONSULT**		
Location	**Oxfordshire RFI**							
Lab Reference (Sample Number)	2528638 / 2528639				**Landfill Waste Acceptance Criteria**			
					Limits			
Sampling Date	16/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	BH06							
Depth (m)	6.20-6.30							
Solid Waste Analysis								
TOC (%)**	5.3				3%	5%	6%	
Loss on Ignition (%) **	11.5				--	--	10%	
BTEX (µg/kg)	< 5.0				6000	--	--	
Sum of PCBs (mg/kg)	< 0.007				1	--	--	
Mineral Oil (mg/kg) EH_1D_CU_AL	370				500	--	--	
Total PAH (WAC-17) (mg/kg) ***	31.9				100	--	--	
pH (units)**	7.5				--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	16				--	To be evaluated	To be evaluated	
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	0.0029			0.0194	0.5	2	25	
Barium *	0.0128			0.0864	20	100	300	
Cadmium *	0.0002			0.0011	0.04	1	5	
Chromium *	0.0007			0.0048	0.5	10	70	
Copper *	0.011			0.073	2	50	100	
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2	
Molybdenum *	0.0165			0.112	0.5	10	30	
Nickel *	0.0080			0.054	0.4	10	40	
Lead *	0.0016			0.011	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 *	0.013			0.090	4	50	200	
Chloride *	18			120	800	15000	25000	
Fluoride*	0.17			1.2	10	150	500	
Sulphate *	200			1400	1000	20000	50000	
TDS*	370			2500	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-	
DOC	20.7			140	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	0.80							
Dry Matter (%)	59							
Moisture (%)	41							

Results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**							
					Client:	**BWBCONSULT**		
Location	**Oxfordshire RFI**							
Lab Reference (Sample Number)	2528640 / 2528641				**Landfill Waste Acceptance Criteria**			
					Limits			
Sampling Date	18/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	DS210							
Depth (m)	1.60							
Solid Waste Analysis								
TOC (%)**	0.6				3%	5%	6%	
Loss on Ignition (%) **	3.3				--	--	10%	
BTEX (µg/kg)	< 5.0				6000	--	--	
Sum of PCBs (mg/kg)	< 0.007				1	--	--	
Mineral Oil (mg/kg) EH_1D_CU_AL	< 10				500	--	--	
Total PAH (WAC-17) (mg/kg)	1.64				100	--	--	
pH (units)**	7.6				--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	5.3				--	To be evaluated	To be evaluated	
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	< 0.0010			< 0.0100	0.5	2	25	
Barium *	0.0309			0.250	20	100	300	
Cadmium *	< 0.0001			< 0.0008	0.04	1	5	
Chromium *	< 0.0004			< 0.0040	0.5	10	70	
Copper *	0.0051			0.041	2	50	100	
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2	
Molybdenum *	0.0013			0.0106	0.5	10	30	
Nickel *	0.0006			0.0045	0.4	10	40	
Lead *	0.0011			< 0.010	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 *	0.013			0.11	4	50	200	
Chloride *	0.61			5.0	800	15000	25000	
Fluoride*	0.47			3.8	10	150	500	
Sulphate *	560			4500	1000	20000	50000	
TDS*	670			5400	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-	
DOC	4.40			35.7	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	0.90							
Dry Matter (%)	84							
Moisture (%)	16							

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**						
					Client:	**BWBCONSULT**	
Location	**Oxfordshire RFI**						
Lab Reference (Sample Number)	2528642 / 2528643				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	18/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	DS213						
Depth (m)	0.40-0.80						
Solid Waste Analysis							
TOC (%)**	1.1				3%	5%	6%
Loss on Ignition (%) **	2.9				--	--	10%
BTEX (µg/kg)	< 5.0				6000	--	--
Sum of PCBs (mg/kg)	0.014				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	< 10				500	--	--
Total PAH (WAC-17) (mg/kg) ***	3.14				100	--	--
pH (units)**	8.1				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	10				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.0010			< 0.0100	0.5	2	25
Barium *	0.0080			0.0679	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	0.0016			0.014	0.5	10	70
Copper *	0.0069			0.058	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0005			0.0040	0.5	10	30
Nickel *	0.0009			0.0075	0.4	10	40
Lead *	0.0015			0.012	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			0.095	4	50	200
Chloride *	0.25			2.1	800	15000	25000
Fluoride*	0.67			5.6	10	150	500
Sulphate *	0.91			7.6	1000	20000	50000
TDS*	54			450	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	9.82			82.8	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.90						
Dry Matter (%)	88						
Moisture (%)	12						

Results are expressed on a dry weight basis, after correction for moisture content where applicable. *= UKAS accredited (liquid eluate analysis only)

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12538**							
					Client:	**BWBCONSULT**		
Location	**Oxfordshire RFI**							
Lab Reference (Sample Number)	2528644 / 2528645				**Landfill Waste Acceptance Criteria**			
					Limits			
Sampling Date	24/11/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID	BH09							
Depth (m)	5.90-6.00							
Solid Waste Analysis								
TOC (%)**	2.5				3%	5%	6%	
Loss on Ignition (%) **	6.0				--	--	10%	
BTEX (µg/kg)	< 5.0				6000	--	--	
Sum of PCBs (mg/kg)	< 0.007				1	--	--	
Mineral Oil (mg/kg) EH_1D_CU_AL	190				500	--	--	
Total PAH (WAC-17) (mg/kg) ***	7.81				100	--	--	
pH (units)**	8.1				--	>6	--	
Acid Neutralisation Capacity (mmol / kg)	24				--	To be evaluated	To be evaluated	
Eluate Analysis	10:1			10:1	Limit values for compliance leaching test			
(BS EN 12457 - 2 preparation utilising end over end leaching procedure)	mg/l			mg/kg	using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic *	0.0064			0.0409	0.5	2	25	
Barium *	0.0438			0.281	20	100	300	
Cadmium *	< 0.0001			< 0.0008	0.04	1	5	
Chromium *	0.0011			0.0067	0.5	10	70	
Copper *	0.017			0.11	2	50	100	
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2	
Molybdenum *	0.0304			0.195	0.5	10	30	
Nickel *	0.0052			0.033	0.4	10	40	
Lead *	0.0023			0.015	0.5	10	50	
Antimony *	0.0074			0.048	0.06	0.7	5	
Selenium *	< 0.0040			< 0.040	0.1	0.5	7	
Zinc *	0.013			0.082	4	50	200	
Chloride *	17			110	800	15000	25000	
Fluoride*	0.42			2.7	10	150	500	
Sulphate *	92			590	1000	20000	50000	
TDS*	250			1600	4000	60000	100000	
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-	
DOC	33.5			214	500	800	1000	
Leach Test Information								
Stone Content (%)	< 0.1							
Sample Mass (kg)	0.90							
Dry Matter (%)	77							
Moisture (%)	23							

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Analytical Report Number : 22-12538
Project / Site name: Oxfordshire RFI

* 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 *
2528632	DS217	None Supplied	1.80-1.90	Brown clay and sand with gravel and brick.
2528634	DS218A	None Supplied	5.30-5.60	Brown clay and sand with plastic and vegetation.
2528636	BH06	None Supplied	1	Brown clay and sand with gravel and vegetation.
2528638	BH06	None Supplied	6.20-6.30	Brown clay and sand with vegetation.
2528640	DS210	None Supplied	1.6	Brown clay and sand with gravel.
2528642	DS213	None Supplied	0.40-0.80	Brown clay and sand with gravel and vegetation.
2528644	BH09	None Supplied	5.90-6.00	Grey clay and sand with gravel and plastic.

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Analytical Report Number : 22-12538
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
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.	L064-PL	D	MCERTS
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. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	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	L031	W	ISO 17025

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Analytical Report Number : 22-12538
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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 or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

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Analytical Report Number : 22-12538
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH06	None Supplied	S	2528636	c	BTEX in soil (Monoaromatics)	L073B-PL	c
BH06	None Supplied	S	2528636	c	Mineral Oil (Soil) C10 - C40	L076-PL	c
BH06	None Supplied	S	2528636	c	PCB's By GC-MS in soil	L027-PL	c
BH06	None Supplied	S	2528636	c	Speciated WAC-17 PAHs in soil	L064-PL	c
BH06	None Supplied	S	2528636	c	Total BTEX in soil (Poland)	L073-PL	c
BH06	None Supplied	S	2528638	c	BTEX in soil (Monoaromatics)	L073B-PL	c
BH06	None Supplied	S	2528638	c	Mineral Oil (Soil) C10 - C40	L076-PL	c
BH06	None Supplied	S	2528638	c	PCB's By GC-MS in soil	L027-PL	c
BH06	None Supplied	S	2528638	c	Speciated WAC-17 PAHs in soil	L064-PL	c
BH06	None Supplied	S	2528638	c	Total BTEX in soil (Poland)	L073-PL	c
BH09	None Supplied	S	2528644	c	BTEX in soil (Monoaromatics)	L073B-PL	c
BH09	None Supplied	S	2528644	c	Total BTEX in soil (Poland)	L073-PL	c
DS210	None Supplied	S	2528640	c	BTEX in soil (Monoaromatics)	L073B-PL	c
DS210	None Supplied	S	2528640	c	Mineral Oil (Soil) C10 - C40	L076-PL	c
DS210	None Supplied	S	2528640	c	PCB's By GC-MS in soil	L027-PL	c
DS210	None Supplied	S	2528640	c	Speciated WAC-17 PAHs in soil	L064-PL	c
DS210	None Supplied	S	2528640	c	Total BTEX in soil (Poland)	L073-PL	c
DS213	None Supplied	S	2528642	c	BTEX in soil (Monoaromatics)	L073B-PL	c
DS213	None Supplied	S	2528642	c	Mineral Oil (Soil) C10 - C40	L076-PL	c
DS213	None Supplied	S	2528642	c	PCB's By GC-MS in soil	L027-PL	c
DS213	None Supplied	S	2528642	c	Speciated WAC-17 PAHs in soil	L064-PL	c
DS213	None Supplied	S	2528642	c	Total BTEX in soil (Poland)	L073-PL	c
DS217	None Supplied	S	2528632	c	BTEX in soil (Monoaromatics)	L073B-PL	c
DS217	None Supplied	S	2528632	c	Mineral Oil (Soil) C10 - C40	L076-PL	c
DS217	None Supplied	S	2528632	c	PCB's By GC-MS in soil	L027-PL	c
DS217	None Supplied	S	2528632	c	Speciated WAC-17 PAHs in soil	L064-PL	c
DS217	None Supplied	S	2528632	c	Total BTEX in soil (Poland)	L073-PL	c
DS218A	None Supplied	S	2528634	c	BTEX in soil (Monoaromatics)	L073B-PL	c
DS218A	None Supplied	S	2528634	c	Mineral Oil (Soil) C10 - C40	L076-PL	c
DS218A	None Supplied	S	2528634	c	PCB's By GC-MS in soil	L027-PL	c
DS218A	None Supplied	S	2528634	c	Speciated WAC-17 PAHs in soil	L064-PL	c
DS218A	None Supplied	S	2528634	c	Total BTEX in soil (Poland)	L073-PL	c

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[redacted]
BWB Consulting Limited
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Analytical Report Number : 22-12708

Project / Site name:	Oxfordshire RFI	**Samples received on:**	09/12/2022
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	09/12/2022
Your order number:	3619	**Analysis completed by:**	23/12/2022
Report Issue Number:	1	**Report issued on:**	23/12/2022
Samples Analysed:	1 leachate sample - 3 soil samples		

Signed: [redacted]

[redacted]
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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.

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-12708
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2529659	2529660	2529661
Sample Reference				BH02	BH02	BH02
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.40-0.50	1.40-1.50	3.40-3.50
Date Sampled				07/12/2022	07/12/2022	07/12/2022
Time Taken				0900	0900	1700
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Stone Content	%	0.1	NONE	< 0.1	53	< 0.1
Moisture Content	%	0.01	NONE	11	13	34
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MLO	MLO	MLO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	8.1	8.4
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Complex Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.05	0.22	0.16
Total Sulphur	mg/kg	50	MCERTS	490	2100	1300
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.013	0.014	0.022

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.13	0.4*	1.5*
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05*	0.25*
Acenaphthene	mg/kg	0.05	MCERTS	0.11	0.18*	0.46*
Fluorene	mg/kg	0.05	MCERTS	0.07	0.18*	0.74*
Phenanthrene	mg/kg	0.05	MCERTS	0.61	0.8*	2.9*
Anthracene	mg/kg	0.05	MCERTS	0.14	0.17*	0.99*
Fluoranthene	mg/kg	0.05	MCERTS	1.5	1.2*	3.8*
Pyrene	mg/kg	0.05	MCERTS	1.4	1*	3.3*
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.72	0.51*	1.3*
Chrysene	mg/kg	0.05	MCERTS	0.7	0.41*	1.4*
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.84	0.6*	1.4*
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.44	0.26*	0.38*
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.78	0.44*	1*
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.39	0.2*	0.71*
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.09	< 0.05*	0.16*
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.45	0.26*	0.77*

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	8.43	6.66*	21*

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Analytical Report Number: 22-12708
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2529659	2529660	2529661
Sample Reference				BH02	BH02	BH02
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.40-0.50	1.40-1.50	3.40-3.50
Date Sampled				07/12/2022	07/12/2022	07/12/2022
Time Taken				0900	0900	1700
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	12	22
Barium (aqua regia extractable)	mg/kg	1	MCERTS	49	52	65
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.89	0.64	0.77
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1.6	2.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	16	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	18	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	41	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	13	21
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	63	29	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	68	82
Monoaromatics & Oxygenates						
Benzene	µg/kg	5	MCERTS	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	48
p & m-xylene	µg/kg	5	MCERTS	-	-	190
o-xylene	µg/kg	5	MCERTS	-	-	22
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0
Petroleum Hydrocarbons						
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	32	220
TPH2 (C6 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	12
TPH-CWG - Aliphatic >EC5 - EC6 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 HS_1D_AL	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 EH_CU_1D_AL	mg/kg	1	MCERTS	-	-	1.2
TPH-CWG - Aliphatic >EC12 - EC16 EH_CU_1D_AL	mg/kg	2	MCERTS	-	-	30
TPH-CWG - Aliphatic >EC16 - EC21 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	26
TPH-CWG - Aliphatic >EC21 - EC35 EH_CU_1D_AL	mg/kg	8	MCERTS	-	-	64
TPH-CWG - Aliphatic (EC5 - EC35) EH_CU+HS_1D_AL	mg/kg	10	NONE	-	-	120
TPH-CWG - Aromatic >EC5 - EC7 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 HS_1D_AR	mg/kg	0.001	NONE	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 HS_1D_AR	mg/kg	0.001	NONE	-	-	0.76
TPH-CWG - Aromatic >EC10 - EC12 EH_CU_1D_AR	mg/kg	1	MCERTS	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 EH_CU_1D_AR	mg/kg	2	MCERTS	-	-	15
TPH-CWG - Aromatic >EC16 - EC21 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	32
TPH-CWG - Aromatic >EC21 - EC35 EH_CU_1D_AR	mg/kg	10	MCERTS	-	-	38
TPH-CWG - Aromatic (EC5 - EC35) EH_CU+HS_1D_AR	mg/kg	10	NONE	-	-	86

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Analytical Report Number: 22-12708
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2529659	2529660	2529661
Sample Reference				BH02	BH02	BH02
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.40-0.50	1.40-1.50	3.40-3.50
Date Sampled				07/12/2022	07/12/2022	07/12/2022
Time Taken				0900	0900	1700
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
VOCs						
Chloromethane	µg/kg	5	ISO 17025	-	-	< 5.0
Chloroethane	µg/kg	5	NONE	-	-	< 5.0
Bromomethane	µg/kg	5	ISO 17025	-	-	< 5.0
Vinyl Chloride	µg/kg	5	NONE	-	-	< 5.0
Trichlorofluoromethane	µg/kg	5	NONE	-	-	< 5.0
1,1-Dichloroethene	µg/kg	5	NONE	-	-	< 5.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	5	NONE	-	-	< 5.0
Cis-1,2-dichloroethene	µg/kg	5	ISO 17025	-	-	< 5.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0
1,1-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0
2,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0
Trichloromethane	µg/kg	5	ISO 17025	-	-	34
1,1,1-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0
1,2-Dichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0
1,1-Dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0
Trans-1,2-dichloroethene	µg/kg	5	NONE	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	-	-	< 5.0
Tetrachloromethane	µg/kg	5	NONE	-	-	< 5.0
1,2-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0
Trichloroethene	µg/kg	5	ISO 17025	-	-	< 5.0
Dibromomethane	µg/kg	5	ISO 17025	-	-	< 5.0
Bromodichloromethane	µg/kg	5	ISO 17025	-	-	< 5.0
Cis-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0
Trans-1,3-dichloropropene	µg/kg	5	ISO 17025	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	-	< 5.0
1,1,2-Trichloroethane	µg/kg	5	ISO 17025	-	-	< 5.0
1,3-Dichloropropane	µg/kg	5	ISO 17025	-	-	< 5.0
Dibromochloromethane	µg/kg	5	ISO 17025	-	-	< 5.0
Tetrachloroethene	µg/kg	5	NONE	-	-	190
1,2-Dibromoethane	µg/kg	5	ISO 17025	-	-	< 5.0
Chlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0
1,1,1,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	-	48
p & m-Xylene	µg/kg	5	MCERTS	-	-	190
Styrene	µg/kg	5	ISO 17025	-	-	< 5.0
Tribromomethane	µg/kg	5	NONE	-	-	< 5.0
o-Xylene	µg/kg	5	MCERTS	-	-	22
1,1,2,2-Tetrachloroethane	µg/kg	5	ISO 17025	-	-	< 5.0
Isopropylbenzene	µg/kg	5	ISO 17025	-	-	25
Bromobenzene	µg/kg	5	ISO 17025	-	-	< 5.0
n-Propylbenzene	µg/kg	5	ISO 17025	-	-	170
2-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 5.0
4-Chlorotoluene	µg/kg	5	ISO 17025	-	-	< 5.0
1,3,5-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	790
tert-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0
1,2,4-Trimethylbenzene	µg/kg	5	ISO 17025	-	-	3700
sec-Butylbenzene	µg/kg	5	ISO 17025	-	-	< 5.0
1,3-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0
p-Isopropyltoluene	µg/kg	5	ISO 17025	-	-	29
1,2-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0
1,4-Dichlorobenzene	µg/kg	5	ISO 17025	-	-	24
Butylbenzene	µg/kg	5	NONE	-	-	< 5.0

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Analytical Report Number: 22-12708
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2529659	2529660	2529661
Sample Reference				BH02	BH02	BH02
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.40-0.50	1.40-1.50	3.40-3.50
Date Sampled				07/12/2022	07/12/2022	07/12/2022
Time Taken				0900	0900	1700
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
1,2-Dibromo-3-chloropropane	µg/kg	5	ISO 17025	-	-	< 5.0
1,2,4-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0
Hexachlorobutadiene	µg/kg	5	NONE	-	-	< 5.0
1,2,3-Trichlorobenzene	µg/kg	5	ISO 17025	-	-	< 5.0
SVOCs*						
Aniline	mg/kg	0.1	NONE	-	-	1
Phenol	mg/kg	0.2	NONE	-	-	< 0.2
2-Chlorophenol	mg/kg	0.1	NONE	-	-	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	NONE	-	-	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	NONE	-	-	0.3
1,2-Dichlorobenzene	mg/kg	0.1	NONE	-	-	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	NONE	-	-	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	NONE	-	-	< 0.1
2-Methylphenol	mg/kg	0.3	NONE	-	-	< 0.3
Hexachloroethane	mg/kg	0.05	NONE	-	-	< 0.05
Nitrobenzene	mg/kg	0.3	NONE	-	-	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2
Isophorone	mg/kg	0.2	NONE	-	-	< 0.2
2-Nitrophenol	mg/kg	0.3	NONE	-	-	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	NONE	-	-	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	NONE	-	-	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	NONE	-	-	< 0.3
Naphthalene	mg/kg	0.05	NONE	-	-	1.5
2,4-Dichlorophenol	mg/kg	0.3	NONE	-	-	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1
Hexachlorobutadiene	mg/kg	0.1	NONE	-	-	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	NONE	-	-	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	NONE	-	-	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	1
2-Chloronaphthalene	mg/kg	0.1	NONE	-	-	< 0.1
Dimethylphthalate	mg/kg	0.1	NONE	-	-	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	NONE	-	-	< 0.1
Acenaphthylene	mg/kg	0.05	NONE	-	-	0.25
Acenaphthene	mg/kg	0.05	NONE	-	-	0.46
2,4-Dinitrotoluene	mg/kg	0.2	NONE	-	-	< 0.2
Dibenzofuran	mg/kg	0.2	NONE	-	-	0.4
4-Chlorophenyl phenyl ether	mg/kg	0.3	NONE	-	-	< 0.3
Diethyl phthalate	mg/kg	0.2	NONE	-	-	< 0.2
4-Nitroaniline	mg/kg	0.2	NONE	-	-	< 0.2
Fluorene	mg/kg	0.05	NONE	-	-	0.74
Azobenzene	mg/kg	0.3	NONE	-	-	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	NONE	-	-	< 0.2
Hexachlorobenzene	mg/kg	0.3	NONE	-	-	< 0.3
Phenanthrene	mg/kg	0.05	NONE	-	-	2.9
Anthracene	mg/kg	0.05	NONE	-	-	0.99
Carbazole	mg/kg	0.3	NONE	-	-	< 0.3
Dibutyl phthalate	mg/kg	0.2	NONE	-	-	0.9
Anthraquinone	mg/kg	0.3	NONE	-	-	< 0.3
Fluoranthene	mg/kg	0.05	NONE	-	-	3.8
Pyrene	mg/kg	0.05	NONE	-	-	3.3
Butyl benzyl phthalate	mg/kg	0.3	NONE	-	-	13

Analytical Report Number: 22-12708
Project / Site name: Oxfordshire RFI
Your Order No: 3619

Lab Sample Number				2529659	2529660	2529661
Sample Reference				BH02	BH02	BH02
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.40-0.50	1.40-1.50	3.40-3.50
Date Sampled				07/12/2022	07/12/2022	07/12/2022
Time Taken				0900	0900	1700
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Benzo(a)anthracene	mg/kg	0.05	NONE	-	-	1.3
Chrysene	mg/kg	0.05	NONE	-	-	1.4
Benzo(b)fluoranthene	mg/kg	0.05	NONE	-	-	1.4
Benzo(k)fluoranthene	mg/kg	0.05	NONE	-	-	0.38
Benzo(a)pyrene	mg/kg	0.05	NONE	-	-	1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	NONE	-	-	0.71
Dibenz(a,h)anthracene	mg/kg	0.05	NONE	-	-	0.16
Benzo(ghi)perylene	mg/kg	0.05	NONE	-	-	0.77
PCBs by GC-MS*						
PCB Congener 28	mg/kg	0.001	NONE	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	NONE	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	NONE	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	NONE	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	NONE	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	NONE	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	NONE	-	-	< 0.001
Total PCBs by GC-MS						
Total PCBs	mg/kg	0.007	NONE	-	-	< 0.007

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted and the failure justified as having no significant impact on sample data reported.

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Analytical Report Number: 22-12708
Project / Site name: Oxfordshire RFI

Your Order No: 3619

Lab Sample Number				2529662
Sample Reference				BH02
Sample Number				None Supplied
Depth (m)				3.40-3.50
Date Sampled				07/12/2022
Time Taken				1700
Analytical Parameter (Leachate Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
General Inorganics				
pH (automated)	pH Units	N/A	ISO 17025	8.1
Total Cyanide	µg/l	10	ISO 17025	< 10
Sulphate as SO_4	mg/l	0.1	ISO 17025	53
Heavy Metals / Metalloids				
Arsenic (dissolved)	µg/l	1	ISO 17025	6.4
Barium (dissolved)	µg/l	0.05	ISO 17025	20
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	270
Cadmium (dissolved)	µg/l	0.08	ISO 17025	< 0.08
Chromium (dissolved)	µg/l	0.4	ISO 17025	< 0.4
Copper (dissolved)	µg/l	0.7	ISO 17025	21
Lead (dissolved)	µg/l	1	ISO 17025	< 1.0
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	80
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	< 1.7
Zinc (dissolved)	µg/l	0.4	ISO 17025	25

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

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Analytical Report Number : 22-12708
Project / Site name: Oxfordshire RFI

* 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 *
2529659	BH02	None Supplied	0.40-0.50	Brown clay and loam with gravel and vegetation.
2529660	BH02	None Supplied	1.40-1.50	Brown clay and sand with gravel and brick.
2529661	BH02	None Supplied	3.40-3.50	Brown clay and sand with gravel and plastic.

Analytical Report Number : 22-12708
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, 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
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
BS EN 12457-1 (2:1) Leachate Prep	2:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-1.	L043-PL	W	NONE
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Boron in leachate	Determination of boron in leachate. Sample acidified and followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Complex Cyanide in soil	Determination of complex cyanide by calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
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
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	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
pH at 20oC in leachate (automated)	Determination of pH in leachate by electrometric measurement.	In house method.	L099B	W	ISO 17025
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS

Analytical Report Number : 22-12708
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	NONE
TPH2 (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	NONE
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
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
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 1986 Methods for the Determination of Metals in Soil""	L039-PL	W	ISO 17025
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS

Analytical Report Number : 22-12708
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

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Analytical Report Number : 22-12714

Project / Site name:	Oxfordshire RFI	**Samples received on:**	09/12/2022
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	09/12/2022
Your order number:	3619	**Analysis completed by:**	29/12/2022
Report Issue Number:	1	**Report issued on:**	29/12/2022
Samples Analysed:	1 10:1 WAC Sample		

Signed: [redacted]

[redacted]
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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The results included within the report relate only to the sample(s) submitted for testing.

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Waste Acceptance Criteria Analytical Results

Report No:	**22-12714**						
					Client:	**BWBCONSULT**	
Location	**Oxfordshire RFI**						
Lab Reference (Sample Number)	2529686 / 2529687				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	07/12/2022						
Sample ID	BH02				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	3.40-3.50						
Solid Waste Analysis							
TOC (%)**	2.2				3%	5%	6%
Loss on Ignition (%) **	5.6				--	--	10%
BTEX (µg/kg)	< 5.0				6000	--	--
Sum of PCBs (mg/kg)	< 0.007				1	--	--
Mineral Oil (mg/kg) EH_1D_CU_AL	150				500	--	--
Total PAH (WAC-17) (mg/kg) ***	19.9				100	--	--
pH (units)**	7.8				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	9.9				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 2 preparation utilising end over end leaching procedure)	10:1 mg/l			10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic *	0.0090			0.0900	0.5	2	25
Barium *	0.0213			0.213	20	100	300
Cadmium *	< 0.0001			< 0.0008	0.04	1	5
Chromium *	< 0.0004			< 0.0040	0.5	10	70
Copper *	0.0049			0.049	2	50	100
Mercury *	< 0.0005			< 0.0050	0.01	0.2	2
Molybdenum *	0.0146			0.146	0.5	10	30
Nickel *	0.015			0.15	0.4	10	40
Lead *	< 0.0010			< 0.010	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 *	0.0073			0.073	4	50	200
Chloride *	6.7			67	800	15000	25000
Fluoride*	0.42			4.2	10	150	500
Sulphate *	17			170	1000	20000	50000
TDS*	220			2200	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.010			< 0.10	1	-	-
DOC	40.3			403	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	0.80						
Dry Matter (%)	66						
Moisture (%)	34						

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 discrepencies with current legislation

** = MCERTS accredited

***Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted and the failure justified as having no significant impact on sample data reported.

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.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 22-12714
Project / Site name: Oxfordshire RFI

* 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 *
2529686	BH02	None Supplied	3.40-3.50	Brown clay and sand with gravel and plastic.

Analytical Report Number : 22-12714
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
BS EN 12457-2 (10:1) Leachate Prep	10:1 (as recieved, moisture adjusted) end over end extraction with water for 24 hours. Eluate filtered prior to analysis.	In-house method based on BSEN12457-2.	L043-PL	W	NONE
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.	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. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Total BTEX in soil (Poland)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	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	L031	W	ISO 17025

Analytical Report Number : 22-12714
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
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 or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Appendix 6 : Water Chemical Analysis Results

4041

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Analytical Report Number : 23-12034

Project / Site name:	Oxfordshire RFI	**Samples received on:**	16/01/2023
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	16/01/2023
Your order number:	3816	**Analysis completed by:**	23/01/2023
Report Issue Number:	1	**Report issued on:**	23/01/2023
Samples Analysed:	9 water samples		

Signed: [redacted]

[redacted]
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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.

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The results included within the report relate only to the sample(s) submitted for testing.

4041

Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555537	2555538	2555539	2555540	2555541
Sample Reference				BH01	BH02	BH03	BH04A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/01/2023	13/01/2023	12/01/2023	12/01/2023	12/01/2023
Time Taken				0900	0900	0900	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH (L005B)	pH Units	N/A	ISO 17025	6.7	7	6.8	6.6	6.6
Electrical Conductivity at 20 °C (L031B)	µS/cm	10	ISO 17025	2000	1700	2100	1700	1300
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO4	mg/l	0.045	ISO 17025	479	139	24	39.1	12.7
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	21	21	66	27	26
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	26000	42000	110000	25000	52000
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	12.4	12.9	19.9	19.6	11.2
Total Organic Carbon (TOC)	mg/l	0.1	ISO 17025	14.6	16.7	22.1	22.1	12.5
Nitrate as N	mg/l	0.01	ISO 17025	0.13	0.09	0.2	0.26	0.12
Nitrite as N	µg/l	1	ISO 17025	1.7	5	1.9	14	9.8
Alkalinity as CaCO3	mg/l	3	ISO 17025	810	950	1200	1000	770
Hardness - Total	mgCaCO3/l	1	ISO 17025	1190	878	728	712	537
Total Phenols								
Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	3.71	3.28	4.29	1.93	3.95
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.36	0.46	0.3	0.25	0.85
Fluorene	µg/l	0.01	ISO 17025	0.17	0.23	0.35	< 0.01	0.33
Phenanthrene	µg/l	0.01	ISO 17025	0.23	0.18	0.46	< 0.01	0.26
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH								
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	4.47	4.15	5.4	2.18	5.39

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4041

Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555537	2555538	2555539	2555540	2555541
Sample Reference				BH01	BH02	BH03	BH04A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/01/2023	13/01/2023	12/01/2023	12/01/2023	12/01/2023
Time Taken				0900	0900	0900	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Boron (dissolved)	µg/l	10	ISO 17025	160	270	170	230	210
Calcium (dissolved)	mg/l	0.012	ISO 17025	440	330	260	260	200
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	2.5	0.043	0.095	0.81	0.53
Fe2+	mg/l	0.2	NONE	1.3	< 0.20	< 0.20	0.8	< 0.20
Fe3+	mg/l	0.2	NONE	1.21	< 0.20	< 0.20	< 0.20	0.53
Magnesium (dissolved)	mg/l	0.005	ISO 17025	23	13	19	16	10
Mn (II)	mg/l	0.02	NONE	< 0.02	0.71	0.65	< 0.02	0.33
Mn (IV)	mg/l	0.02	NONE	0.34	0.08	0.67	< 0.02	0.04
Iron (total)	mg/l	0.004	ISO 17025	22	24	48	100	42
Manganese (total)	µg/l	0.05	ISO 17025	1300	660	1000	760	300
Arsenic (dissolved)	µg/l	0.15	ISO 17025	3.41	1.56	1.61	1.7	1
Barium (dissolved)	µg/l	0.06	ISO 17025	100	110	68	150	160
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	0.3	0.5	0.7	0.4
Copper (dissolved)	µg/l	0.5	ISO 17025	0.9	1.4	< 0.5	1	< 0.5
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	9	5.9	3	28	1.6
Selenium (dissolved)	µg/l	0.6	ISO 17025	1	< 0.6	0.8	< 0.6	< 0.6
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.4	< 0.2	< 0.2	< 0.2	< 0.2
Zinc (dissolved)	µg/l	0.5	ISO 17025	9.9	5.2	2.6	3.8	3
Monoaromatics & Oxygenates								
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	1.5	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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4041

Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555537	2555538	2555539	2555540	2555541
Sample Reference				BH01	BH02	BH03	BH04A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/01/2023	13/01/2023	12/01/2023	12/01/2023	12/01/2023
Time Taken				0900	0900	0900	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Petroleum Hydrocarbons								
TPH1 (C10 - C40) EH_1D_TOTAL_MS	µg/l	10	ISO 17025	41	170	91	140	38
TPH2 (C6 - C10) HS_1D_TOTAL	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C5 - C6 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 EH_1D_AL_MS	µg/l	10	NONE	< 10	70	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 EH_1D_AL_MS	µg/l	10	NONE	< 10	30	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) HS+EH_1D_AL_MS	µg/l	10	NONE	< 10	100	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12 EH_1D_AR_MS	µg/l	10	NONE	20	40	40	80	26
TPH-CWG - Aromatic >C12 - C16 EH_1D_AR_MS	µg/l	10	NONE	20	30	50	60	12
TPH-CWG - Aromatic >C16 - C21 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) HS+EH_1D_AR_MS	µg/l	10	NONE	40	70	90	140	38
VOCs								
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	3.6	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	1.5	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	4.3	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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4041

Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555537	2555538	2555539	2555540	2555541
Sample Reference				BH01	BH02	BH03	BH04A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/01/2023	13/01/2023	12/01/2023	12/01/2023	12/01/2023
Time Taken				0900	0900	0900	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	13.5	< 1.0*
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0*

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	0.29	0.33	0.31	0.33	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	1.9	1.5	1.5	1.6	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	3.8	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	3.7	3.3	4.3	1.9	4
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

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4041

Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555537	2555538	2555539	2555540	2555541
Sample Reference				BH01	BH02	BH03	BH04A	BH05A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				13/01/2023	13/01/2023	12/01/2023	12/01/2023	12/01/2023
Time Taken				0900	0900	0900	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
2-Methylnaphthalene	µg/l	0.05	NONE	0.92	0.64	0.69	0.38	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.36	0.46	0.3	0.25	0.85
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	0.17	0.23	0.35	< 0.01	0.33
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	0.23	0.18	0.46	< 0.01	0.26
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	3.8	< 0.10	< 0.10

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

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Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555542	2555543	2555544	2555545
Sample Reference				BH06	BH07	BH08	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2023	12/01/2023	13/01/2023	13/01/2023
Time Taken				0900	0900	0900	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
General Inorganics							
pH (L005B)	pH Units	N/A	ISO 17025	7.3	6.7	6.9	7
Electrical Conductivity at 20 °C (L031B)	µS/cm	10	ISO 17025	5700	2000	2200	2600
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10
Sulphate as SO4	mg/l	0.045	ISO 17025	15.6	5.04	31.8	17.8
Sulphide	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0
Chloride	mg/l	0.15	ISO 17025	490	40	62	130
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	340000	130000	140000	140000
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	114	23.9	20	37.6
Total Organic Carbon (TOC)	mg/l	0.1	ISO 17025	147	28.4	23.7	45.5
Nitrate as N	mg/l	0.01	ISO 17025	0.28	0.16	0.14	0.25
Nitrite as N	µg/l	1	ISO 17025	1.8	3.7	2.5	1.3
Alkalinity as CaCO3	mg/l	3	ISO 17025	3000	1300	1400	1600
Hardness - Total	mgCaCO3/l	1	ISO 17025	555	407	710	843
Total Phenols							
Total Phenols (monohydric)	µg/l	10	ISO 17025	20	< 10	< 10	< 10
Speciated PAHs							
Naphthalene	µg/l	0.01	ISO 17025	13.9	3.66	6.34	6.77
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.88	0.38	0.33	< 0.01
Fluorene	µg/l	0.01	ISO 17025	0.41	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	0.89	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	0.21	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	0.54	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	0.43	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Total PAH							
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	17.3	4.04	6.67	6.77

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Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555542	2555543	2555544	2555545
Sample Reference				BH06	BH07	BH08	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2023	12/01/2023	13/01/2023	13/01/2023
Time Taken				0900	0900	0900	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Heavy Metals / Metalloids							
Boron (dissolved)	µg/l	10	ISO 17025	93	330	340	320
Calcium (dissolved)	mg/l	0.012	ISO 17025	120	140	240	260
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.41	8.7	0.035	0.13
Fe2+	mg/l	0.2	NONE	< 0.20	< 0.20	< 0.20	< 0.20
Fe3+	mg/l	0.2	NONE	0.41	8.67	< 0.20	< 0.20
Magnesium (dissolved)	mg/l	0.005	ISO 17025	61	16	26	44
Mn (II)	mg/l	0.02	NONE	0.37	0.36	0.45	0.23
Mn (IV)	mg/l	0.02	NONE	0.57	< 0.02	0.28	0.43
Iron (total)	mg/l	0.004	ISO 17025	52	48	47	81
Manganese (total)	µg/l	0.05	ISO 17025	1400	420	1300	790
Arsenic (dissolved)	µg/l	0.15	ISO 17025	3.48	0.91	1.2	1.32
Barium (dissolved)	µg/l	0.06	ISO 17025	250	68	100	180
Beryllium (dissolved)	µg/l	0.1	ISO 17025	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	4.9	< 0.2	< 0.2	0.6
Copper (dissolved)	µg/l	0.5	ISO 17025	1.7	1.4	2.8	3.5
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	0.8
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	32	4.4	15	19
Selenium (dissolved)	µg/l	0.6	ISO 17025	5	< 0.6	0.7	0.9
Vanadium (dissolved)	µg/l	0.2	ISO 17025	2.5	< 0.2	0.6	0.4
Zinc (dissolved)	µg/l	0.5	ISO 17025	9.5	7.5	10	9.9
Monoaromatics & Oxygenates							
Benzene	µg/l	1	ISO 17025	< 1.0	2.5	2.9	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	5.6
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	8.7
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	10.8
o-xylene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555542	2555543	2555544	2555545
Sample Reference				BH06	BH07	BH08	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2023	12/01/2023	13/01/2023	13/01/2023
Time Taken				0900	0900	0900	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Petroleum Hydrocarbons							
TPH1 (C10 - C40) EH_1D_TOTAL_MS	µg/l	10	ISO 17025	200	54	170	52
TPH2 (C6 - C10) HS_1D_TOTAL	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C5 - C6 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10 HS_1D_AL	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 EH_1D_AL_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 EH_1D_AL_MS	µg/l	10	NONE	130	< 10	120	< 10
TPH-CWG - Aliphatic (C5 - C35) HS+EH_1D_AL_MS	µg/l	10	NONE	130	< 10	120	< 10
TPH-CWG - Aromatic >C5 - C7 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	5.5
TPH-CWG - Aromatic >C8 - C10 HS_1D_AR	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	33
TPH-CWG - Aromatic >C10 - C12 EH_1D_AR_MS	µg/l	10	NONE	42	18	25	33
TPH-CWG - Aromatic >C12 - C16 EH_1D_AR_MS	µg/l	10	NONE	55	34	23	19
TPH-CWG - Aromatic >C16 - C21 EH_1D_AR_MS	µg/l	10	NONE	22	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 EH_1D_AR_MS	µg/l	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) HS+EH_1D_AR_MS	µg/l	10	NONE	120	52	48	91
VOCs							
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	2.5	2.9	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	5.6
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555542	2555543	2555544	2555545
Sample Reference				BH06	BH07	BH08	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2023	12/01/2023	13/01/2023	13/01/2023
Time Taken				0900	0900	0900	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	116	14.2
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	8.7
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	10.8
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0*	1	< 1.0	4.5*
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	5.9	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	24.5*	10.2	< 1.0	109*
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0*	< 1.0	< 1.0	< 1.0*

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	2	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	160	< 0.05	2	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	14	3.7	6.3	6.8
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05

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The results included within the report relate only to the sample(s) submitted for testing.

4041

Analytical Report Number: 23-12034
Project / Site name: Oxfordshire RFI

Your Order No: 3816

Lab Sample Number				2555542	2555543	2555544	2555545
Sample Reference				BH06	BH07	BH08	BH09
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2023	12/01/2023	13/01/2023	13/01/2023
Time Taken				0900	0900	0900	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	1	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.88	0.38	0.33	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	0.41	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	0.89	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	0.21	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	0.54	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	0.43	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	µg/l	0.1	NONE	160	< 0.10	2	< 0.10

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

*Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and therefore may be unreliable.

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4041

Analytical Report Number : 23-12034
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (total)	Determination of metals in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW, PrW (Al, Fe, Cu, Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in water by ICP-MS (total)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Electrical conductivity at 20oC of water	Determination of electrical conductivity in water by electrometric measurement. Accredited Matrices SW, GW, PW	In-house method	L031-PL	W	ISO 17025
Iron (II) and Iron (III) in water	Determination of Iron II and Iron III in water by coloration with phenanthroline and calculation.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L079-PL	W	NONE
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
Monohydric phenols in water	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
Sulphide in water	Determination of sulphide in water by ion selective electrode.	In-house method	L029-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
TPH2 (Waters)	Determination of hydrocarbons C6-C10 by headspace GC-MS. Accredited Matrices SW, PW. GW.	In-house method based on USEPA8260	L088-PL	W	ISO 17025
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	ISO 17025
Total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025

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Analytical Report Number : 23-12034
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon in water	Determination of dissolved organic carbon in water by TOC/DOC NDIR analyser. Accredited matrices: SW PW GW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the discrete analyser (colorimetric) salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrite as N in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Manganese II and IV in Water	Analysis of manganese compounds by periodate oxidation method.	In house method and calculation based on standard methods for the examination of water and waste water.	L090-PL	W	NONE
TPH1 (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS.	In-house method	L070-PL	W	ISO 17025
Chloride in water	Determination of Chloride (diissolved) colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025

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Analytical Report Number : 23-12034
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Alkalinity in Water (by discreet analyser)	Determination of Alkalinity by discreet analyser (colorimetry). Accredited matrices: SW, PW, GW.	In house method based on MEWAM & USEPA Method 310.2.	L082-PL	W	ISO 17025

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

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

Sample Deviation Report

Analytical Report Number : 23-12034
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH01	None Supplied	W	2555537	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH01	None Supplied	W	2555537	c	Electrical conductivity at 20oC of water	L031-PL	c
BH01	None Supplied	W	2555537	c	Manganese II and IV in Water	L090-PL	c
BH01	None Supplied	W	2555537	c	pH at 20oC in water (automated)	L099-PL	c
BH02	None Supplied	W	2555538	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH02	None Supplied	W	2555538	c	Electrical conductivity at 20oC of water	L031-PL	c
BH02	None Supplied	W	2555538	c	Manganese II and IV in Water	L090-PL	c
BH02	None Supplied	W	2555538	c	pH at 20oC in water (automated)	L099-PL	c
BH03	None Supplied	W	2555539	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH03	None Supplied	W	2555539	c	Electrical conductivity at 20oC of water	L031-PL	c
BH03	None Supplied	W	2555539	c	Manganese II and IV in Water	L090-PL	c
BH03	None Supplied	W	2555539	c	pH at 20oC in water (automated)	L099-PL	c
BH04A	None Supplied	W	2555540	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH04A	None Supplied	W	2555540	c	Electrical conductivity at 20oC of water	L031-PL	c
BH04A	None Supplied	W	2555540	c	Manganese II and IV in Water	L090-PL	c
BH04A	None Supplied	W	2555540	c	pH at 20oC in water (automated)	L099-PL	c
BH05A	None Supplied	W	2555541	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH05A	None Supplied	W	2555541	c	Electrical conductivity at 20oC of water	L031-PL	c
BH05A	None Supplied	W	2555541	c	Manganese II and IV in Water	L090-PL	c
BH05A	None Supplied	W	2555541	c	pH at 20oC in water (automated)	L099-PL	c
BH06	None Supplied	W	2555542	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH06	None Supplied	W	2555542	c	Electrical conductivity at 20oC of water	L031-PL	c
BH06	None Supplied	W	2555542	c	Manganese II and IV in Water	L090-PL	c
BH06	None Supplied	W	2555542	c	pH at 20oC in water (automated)	L099-PL	c
BH07	None Supplied	W	2555543	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH07	None Supplied	W	2555543	c	Electrical conductivity at 20oC of water	L031-PL	c
BH07	None Supplied	W	2555543	c	Manganese II and IV in Water	L090-PL	c
BH07	None Supplied	W	2555543	c	pH at 20oC in water (automated)	L099-PL	c
BH08	None Supplied	W	2555544	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH08	None Supplied	W	2555544	c	Electrical conductivity at 20oC of water	L031-PL	c
BH08	None Supplied	W	2555544	c	Manganese II and IV in Water	L090-PL	c
BH08	None Supplied	W	2555544	c	pH at 20oC in water (automated)	L099-PL	c
BH09	None Supplied	W	2555545	c	Ammoniacal Nitrogen as N in water	L082-PL	c
BH09	None Supplied	W	2555545	c	Electrical conductivity at 20oC of water	L031-PL	c
BH09	None Supplied	W	2555545	c	Manganese II and IV in Water	L090-PL	c
BH09	None Supplied	W	2555545	c	pH at 20oC in water (automated)	L099-PL	c

Appendix 7 : Geotechnical Laboratory Testing Results

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

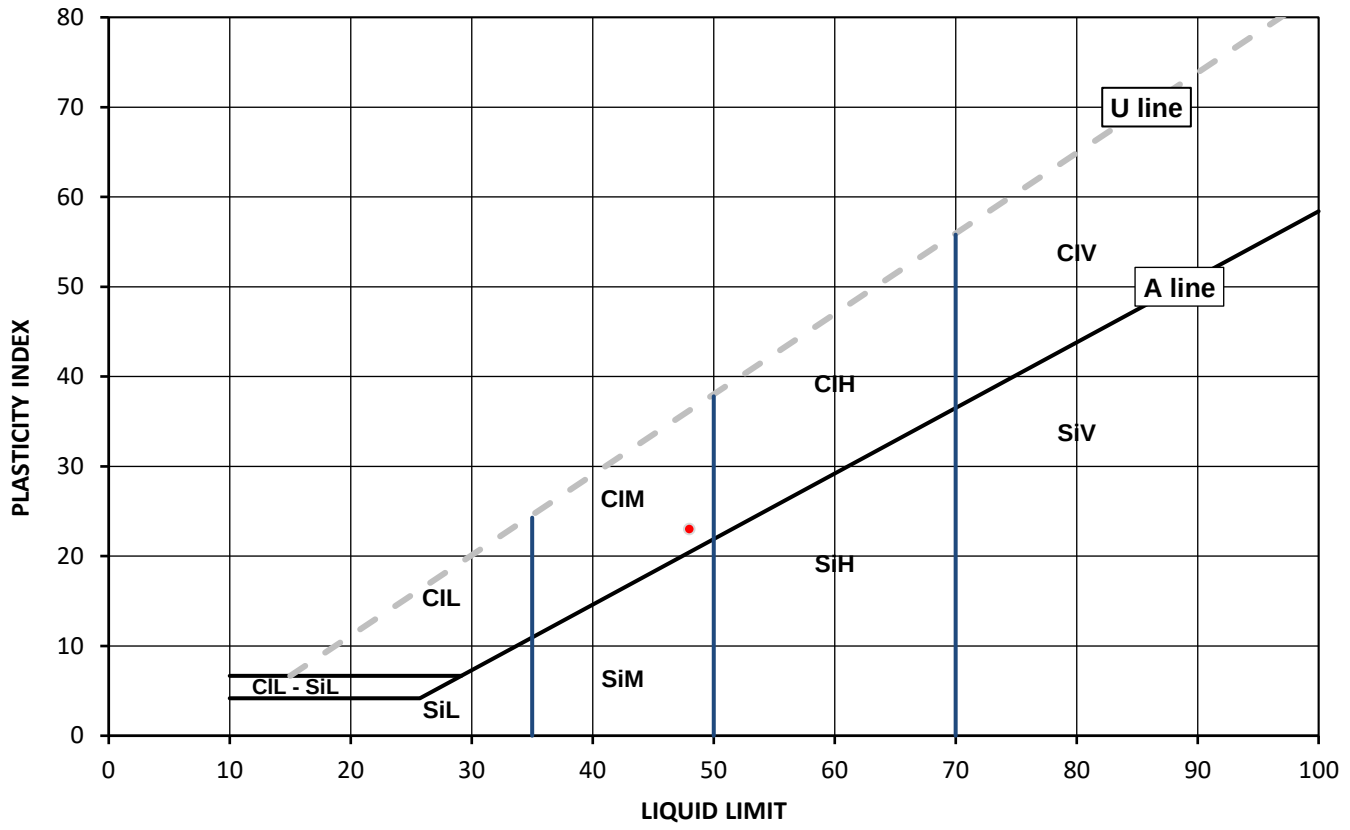
Test Results:

Laboratory Reference: 2534883
Hole No.: DS216
Sample Reference: D2
Sample Description: Brownish grey slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.30
Depth Base [m]: 1.40
Sample Type: D

Sample Preparation: Tested after >425um removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
24	48	25	23	99



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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]
[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

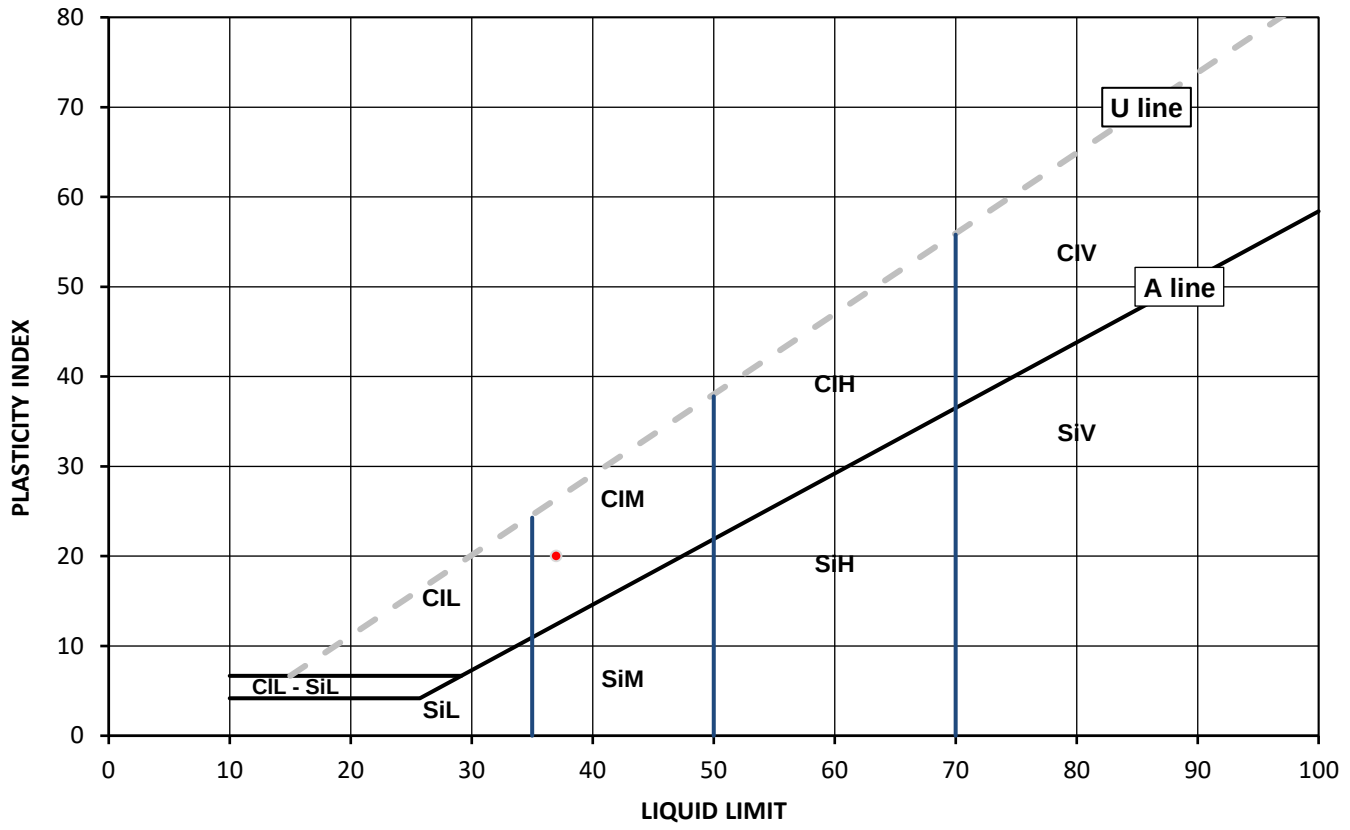
Test Results:

Laboratory Reference: 2534890
Hole No.: DS209
Sample Reference: D1
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.00
Depth Base [m]: 1.00
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
16	37	17	20	81



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

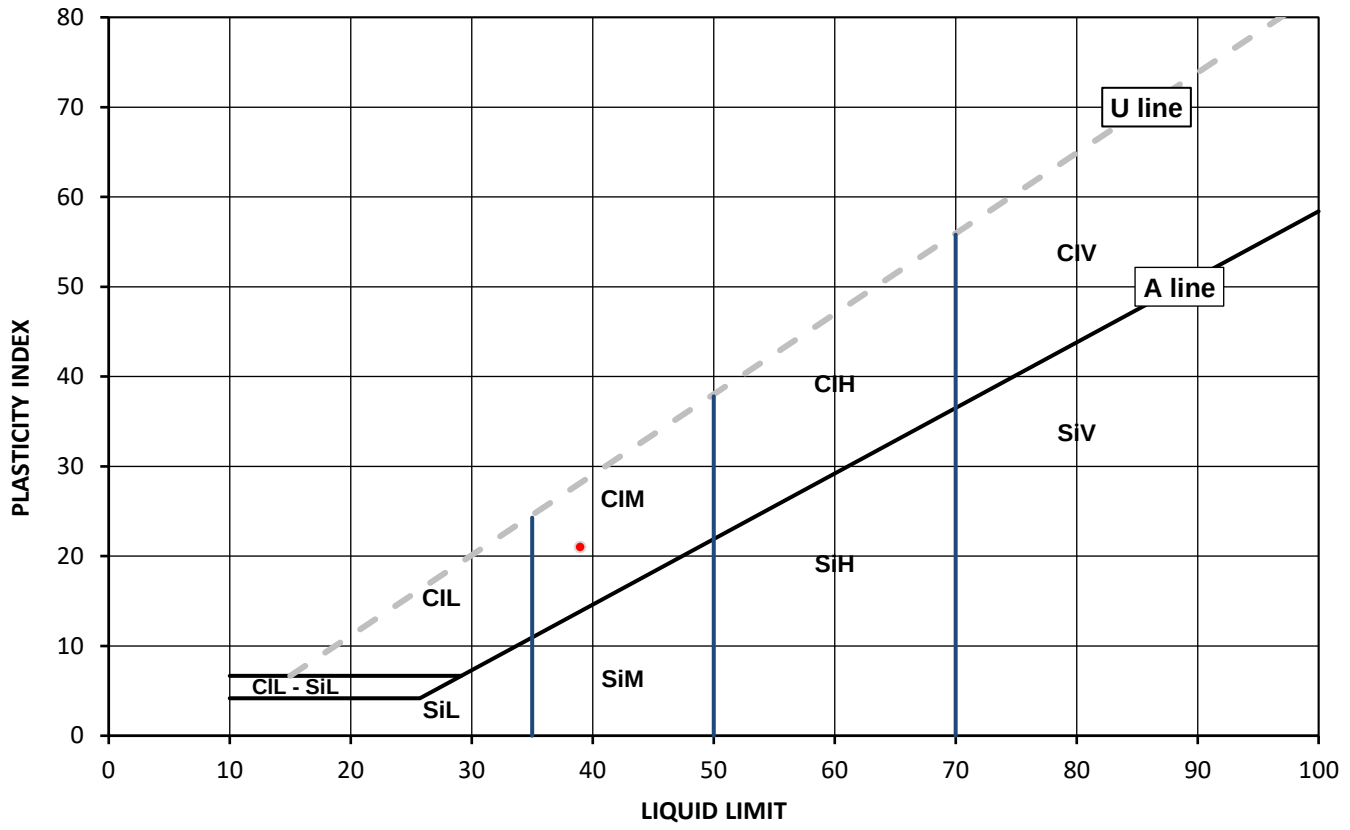
Test Results:

Laboratory Reference: 2534891
Hole No.: BH09
Sample Reference: D2
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 0.90
Depth Base [m]: 0.90
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
34	39	18	21	69



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

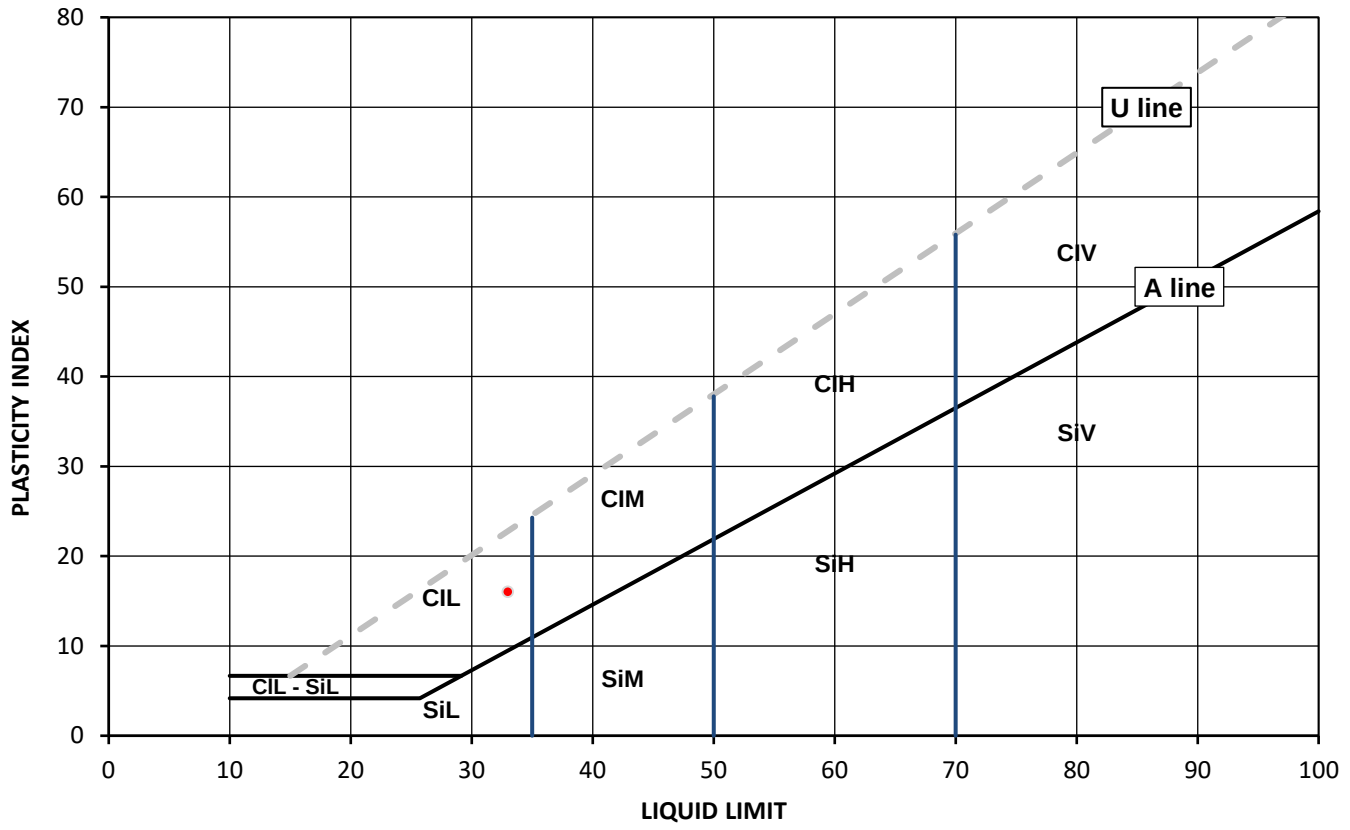
Test Results:

Laboratory Reference: 2534898
Hole No.: BH05A
Sample Reference: D2
Sample Description: Brownish grey gravelly very sandy CLAY

Depth Top [m]: 1.80
Depth Base [m]: 1.80
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
19	33	17	16	48



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

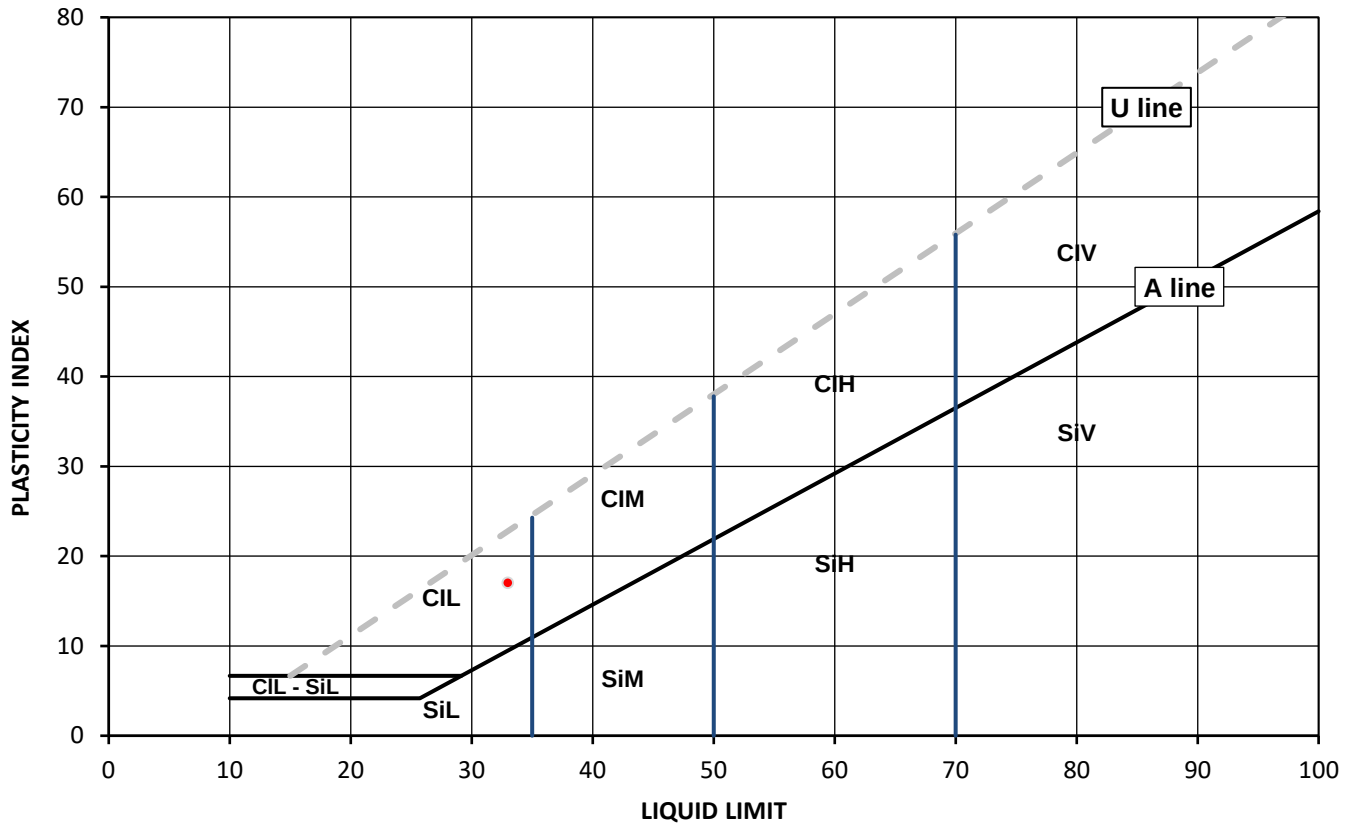
Test Results:

Laboratory Reference: 2534899
Hole No.: DS201
Sample Reference: D2
Sample Description: Brownish grey slightly gravelly very sandy CLAY

Depth Top [m]: 1.30
Depth Base [m]: 1.40
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15	33	16	17	82



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
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Northampton NN4 7EB

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Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

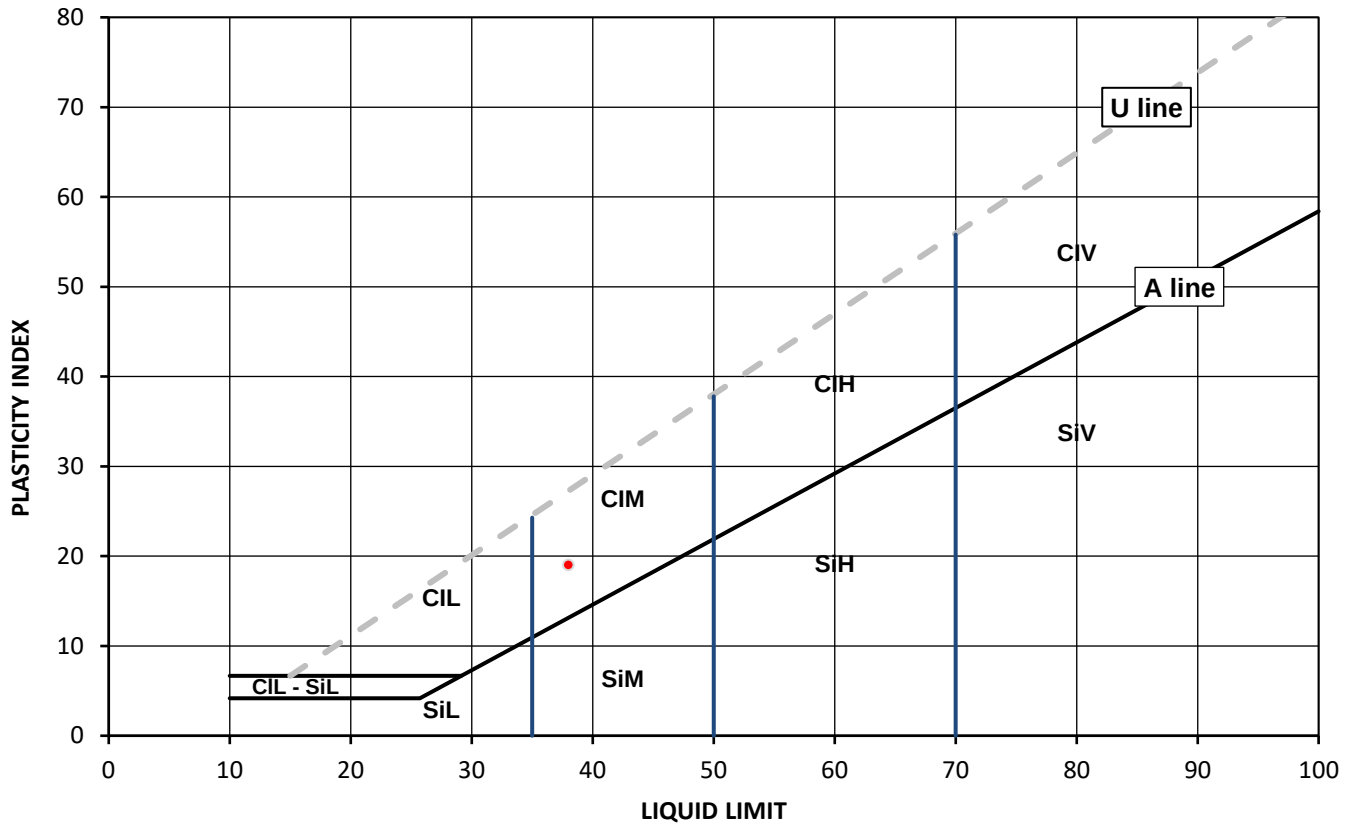
Test Results:

Laboratory Reference: 2534900
Hole No.: DS202
Sample Reference: D2
Sample Description: Yellowish brown slightly gravelly sandy CLAY

Depth Top [m]: 1.40
Depth Base [m]: 1.50
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	38	19	19	76



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

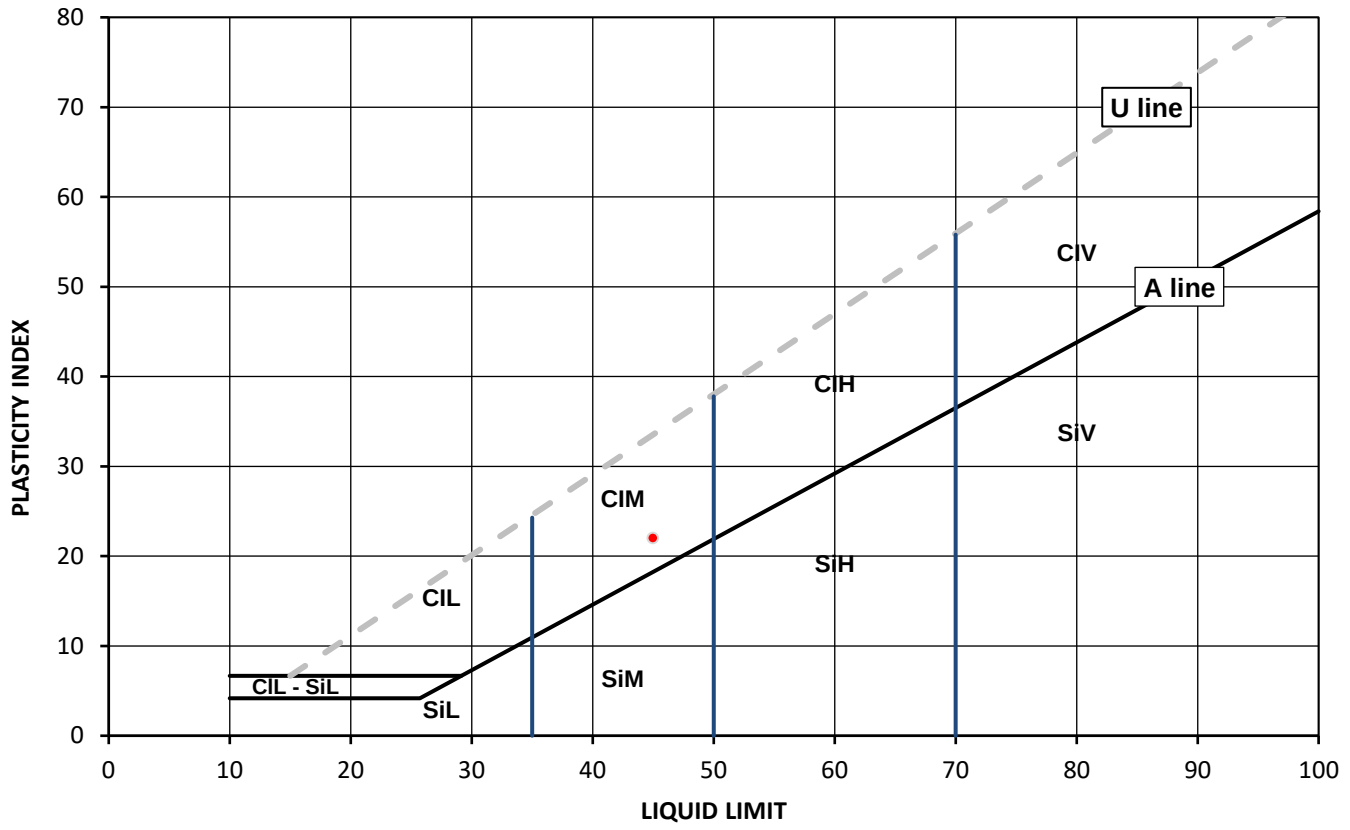
Test Results:

Laboratory Reference: 2534904
Hole No.: DS214
Sample Reference: D2
Sample Description: Yellowish brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.30
Depth Base [m]: 1.30
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
21	45	23	22	91



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
[redacted] Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

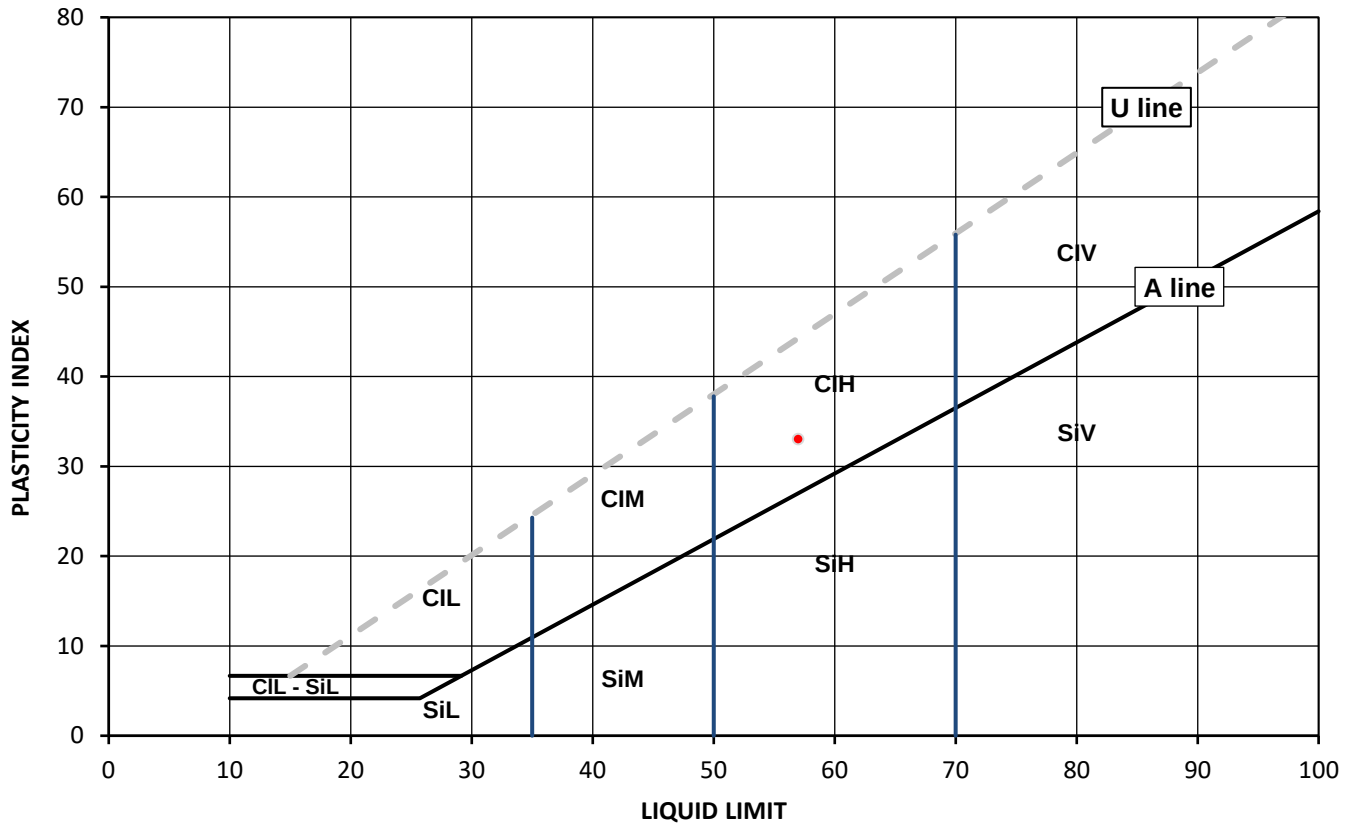
Test Results:

Laboratory Reference: 2534907
Hole No.: BH04A
Sample Reference: D2
Sample Description: Brown slightly gravelly slightly sandy CLAY

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

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
27	57	24	33	75



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

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

4041

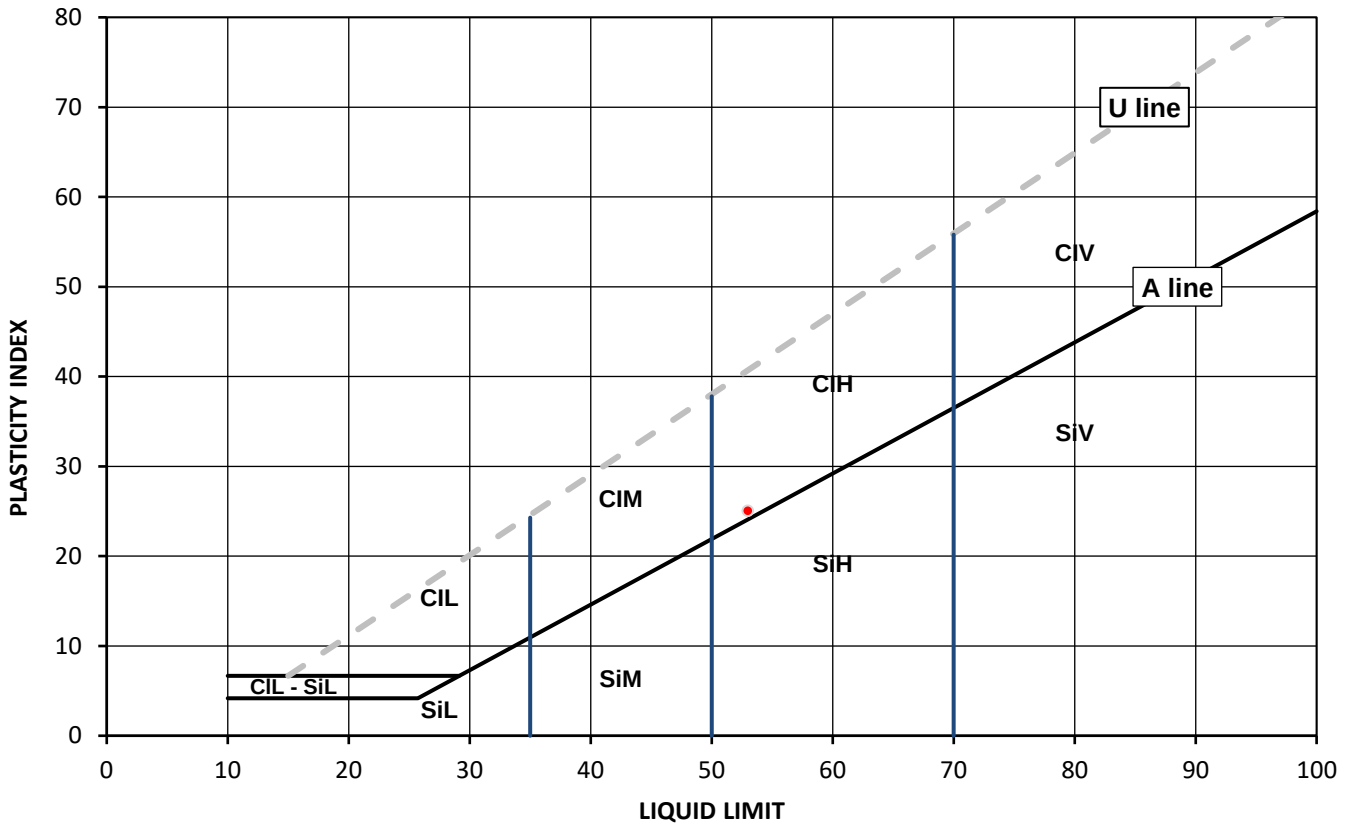
Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	23/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534909	Depth Top [m]:	0.90
Hole No.:	BH01	Depth Base [m]:	1.00
Sample Reference:	D2	Sample Type:	D
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Tested after washing to remove >425um		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17	53	28	25	71



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.4 and 5

i2 Analytical Ltd
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Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: BWB Consulting Limited
Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB
Contact: [redacted]
Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

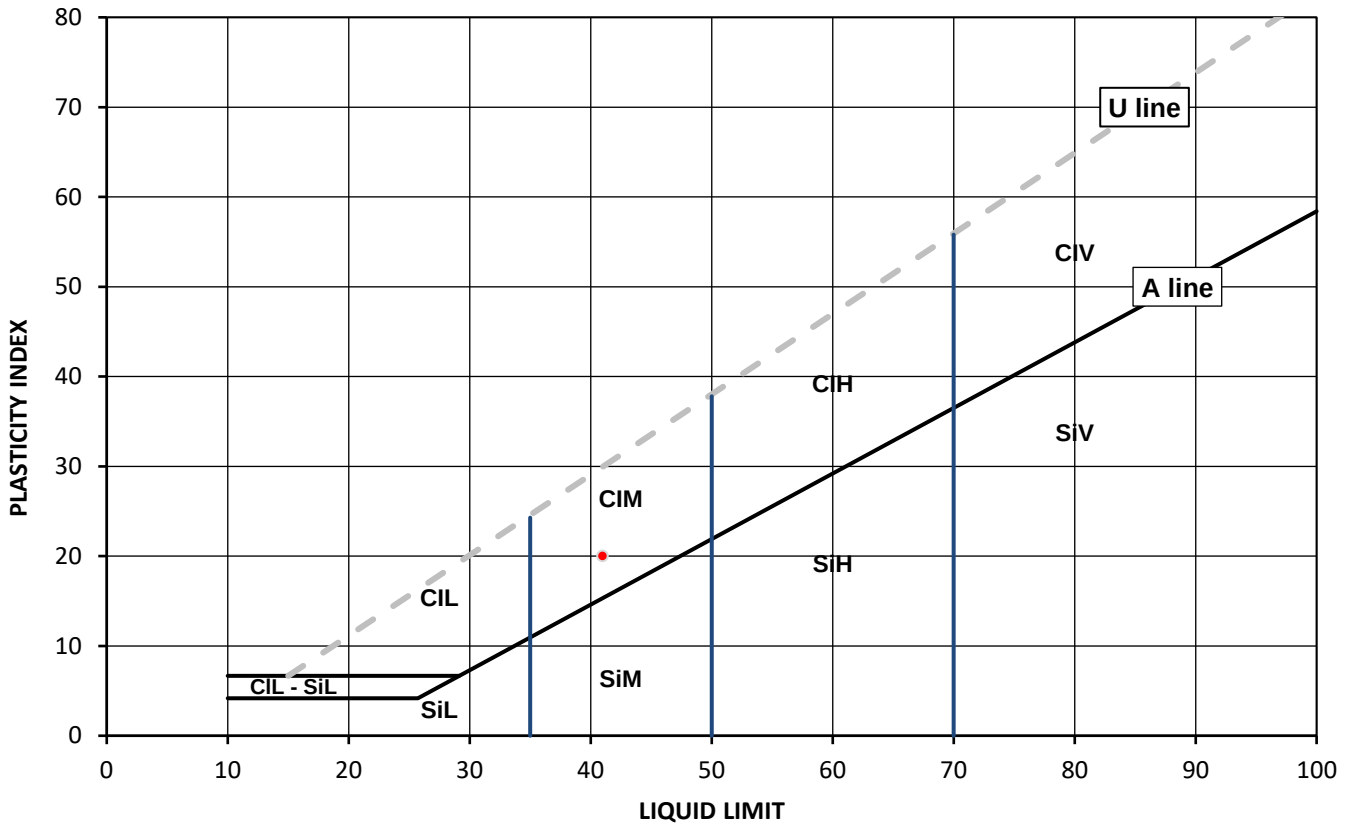
Test Results:

Laboratory Reference: 2534914
Hole No.: BH08
Sample Reference: D2
Sample Description: Yellowish brown gravelly sandy CLAY

Depth Top [m]: 1.10
Depth Base [m]: 1.20
Sample Type: D

Sample Preparation: Tested after washing to remove >425um

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17	41	21	20	65



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

		Plasticity		Liquid Limit
Cl	Clay	L	Low	below 35
Si	Silt	M	Medium	35 to 50
		H	High	50 to 70
		V	Very high	exceeding 70
		O	Organic	append to classification for organic material (eg ClHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

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Signed: [redacted]
[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 232.12

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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

4041

Client: BWB Consulting Limited

Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

Contact: [redacted]

Site Address: Oxfordshire RFI

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W]	Water Content BS EN ISO 17892-1 [W]	Atterberg				Density			Total Porosity#		
		Reference	Depth Top	Depth Base	Type					% Passing 425um	WL	Wp	Ip	bulk	dry	PD			
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%		
2534883	DS216	D2	1.30	1.40	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	24		99	48	25	23						
2534911	BH01	B2	0.60	1.00	B	Brown gravelly very silty very sandy CLAY										2.56			
2534909	BH01	D2	0.90	1.00	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	17		71	53	28	25						
2534912	BH01	B3	1.50	1.80	B	Brownish grey very gravelly sandy CLAY with plastic										2.73			
2534910	BH01	D3	1.50	1.60	D	Yellowish brown to dark brown gravelly slightly sandy CLAY		19											
2539869	BH02		0.30	0.40	D	Brown gravelly CLAY		17											
2534906	BH04A	D1	0.60	0.60	D	Greyish brown very gravelly CLAY		18											
2534905	BH04A	B2	1.50	1.50	B	Brownish grey gravelly very silty very clayey SAND										2.56			
2534907	BH04A	D2	1.50	2.00	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	27		75	57	24	33						
2534893	BH05	B2	1.00	1.00	B	Brown very clayey gravelly CLAY										2.63			

Note: # Non accredited; NP - Non plastic

Comments:

Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 30/12/2022

GF 234.14

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

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

4041

Client: BWB Consulting Limited

Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

Contact: [redacted]

Site Address: Oxfordshire RFI

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W]	Water Content BS EN ISO 17892-1 [W]	Atterberg				Density			Total Porosity#		
		Reference	Depth Top m	Depth Base m	Type			%	%	% Passing 425um %	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3	%		
2534897	BH05A	B3	1.50	1.80	B	Brownish grey gravelly sandy CLAY										2.70			
2534898	BH05A	D2	1.80	1.80	D	Brownish grey gravelly very sandy CLAY	Atterberg 1 Point	19		48	33	17	16						
2534886	BH06	B3	1.20	1.70	B	Brownish grey gravelly sandy CLAY		21								2.68			
2534887	BH07	B2	0.80	1.20	B	Brown mottled grey gravelly sandy CLAY										2.70			
2534913	BH08	D1	0.30	0.40	D	Brown slightly gravelly slightly silty CLAY		21											
2534915	BH08	B2	1.00	1.50	B	Greyish brown gravelly sandy CLAY										2.64			
2534914	BH08	D2	1.10	1.20	D	Yellowish brown gravelly sandy CLAY	Atterberg 1 Point	17		65	41	21	20						
2534891	BH09	D2	0.90	0.90	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	34		69	39	18	21						
2534899	DS201	D2	1.30	1.40	D	Brownish grey slightly gravelly very sandy CLAY	Atterberg 1 Point	15		82	33	16	17						
2534900	DS202	D2	1.40	1.50	D	Yellowish brown slightly gravelly sandy CLAY	Atterberg 1 Point	23		76	38	19	19						

Note: # Non accredited; NP - Non plastic

Comments:

Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 30/12/2022

GF 234.14

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2; Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5; PD by BS 1377-2: 1990: Clause 8.2

i2 Analytical Ltd
Unit 8 Harrowden Road
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Northampton NN4 7EB

4041

Client: BWB Consulting Limited

Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB

Contact: [redacted]

Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12/2022
Sampled By: Not Given

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W]	Water Content BS EN ISO 17892-1 [W]	Atterberg				Density			Total Porosity#		
		Reference	Depth Top m	Depth Base m	Type			%	%	% Passing 425um %	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3	%		
2534901	DS202	D3	1.80	1.90	D	Brownish grey CLAY		21											
2534902	DS203	D2	0.60	0.70	D	Greyish brown very gravelly CLAY		16											
2534895	DS206	D1	0.70	0.80	D	Brownish grey gravelly CLAY		14											
2534903	DS207	B1	0.40	0.80	B	Yellowish brown gravelly sandy SILT										2.62			
2534890	DS209	D1	1.00	1.00	D	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	16		81	37	17	20						
2534904	DS214	D2	1.30	1.30	D	Yellowish brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	21		91	45	23	22						
2534908	BH01	D1	0.50	0.60	D	Brown slightly gravelly slightly silty CLAY		26											

Note: # Non accredited; NP - Non plastic

Comments:

Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

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Date Reported: 30/12/2022

GF 234.14

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

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

4041

Client: BWB Consulting Limited

Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB

Contact: [redacted]

Site Address: Oxfordshire RFI

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 21/12 - 23/12/2022
Sampled By: Not Given

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type			%				
2534883	DS216	D2	1.30	1.40	D	Brownish grey slightly gravelly slightly sandy CLAY		24	Sample was quartered, oven dried at 107 °C			
2534886	BH06	B3	1.20	1.70	B	Brownish grey gravelly sandy CLAY		21	Sample was quartered, oven dried at 106.2 °C			
2534890	DS209	D1	1.00	1.00	D	Brownish grey slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 107 °C			
2534891	BH09	D2	0.90	0.90	D	Brownish grey slightly gravelly sandy CLAY		34	Sample was quartered, oven dried at 107 °C			
2534895	DS206	D1	0.70	0.80	D	Brownish grey gravelly CLAY		14	Sample was quartered, oven dried at 107 °C			
2534898	BH05A	D2	1.80	1.80	D	Brownish grey gravelly very sandy CLAY		19	Sample was quartered, oven dried at 107 °C			
2534899	DS201	D2	1.30	1.40	D	Brownish grey slightly gravelly very sandy CLAY		15	Sample was quartered, oven dried at 107 °C			
2534900	DS202	D2	1.40	1.50	D	Yellowish brown slightly gravelly sandy CLAY		23	Sample was quartered, oven dried at 107 °C			
2534901	DS202	D3	1.80	1.90	D	Brownish grey CLAY		21	Sample was quartered, oven dried at 107 °C			
2534902	DS203	D2	0.60	0.70	D	Greyish brown very gravelly CLAY		16	Sample was quartered, oven dried at 107 °C			

Comments:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 099.16

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

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

4041

Client: BWB Consulting Limited

Client Address: Livery Place, 35 Livery Street Birmingham, B3 2PB

Contact: [redacted]

Site Address: Oxfordshire RFI

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

Client Reference: NTH2479
Job Number: 22-13502
Date Sampled: Not Given
Date Received: 18/11/2022
Date Tested: 23/12 - 29/12/2022
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type			%				
2534904	DS214	D2	1.30	1.30	D	Yellowish brown slightly gravelly slightly sandy CLAY		21	Sample was quartered, oven dried at 107 °C			
2534906	BH04A	D1	0.60	0.60	D	Greyish brown very gravelly CLAY		18	Sample was quartered, oven dried at 107 °C			
2534907	BH04A	D2	1.50	2.00	D	Brown slightly gravelly slightly sandy CLAY		27	Sample was quartered, oven dried at 107 °C			
2534908	BH01	D1	0.50	0.60	D	Brown slightly gravelly slightly silty CLAY		26	Sample was quartered, oven dried at 107.5 °C			
2534909	BH01	D2	0.90	1.00	D	Brown slightly gravelly slightly sandy CLAY		17	Sample was quartered, oven dried at 107 °C			
2534910	BH01	D3	1.50	1.60	D	Yellowish brown to dark brown gravelly slightly sandy CLAY		19	Sample was quartered, oven dried at 106.1 °C			
2534913	BH08	D1	0.30	0.40	D	Brown slightly gravelly slightly silty CLAY		21	Sample was quartered, oven dried at 107 °C			
2534914	BH08	D2	1.10	1.20	D	Yellowish brown gravelly sandy CLAY		17	Sample was quartered, oven dried at 107 °C			
2539869	BH02		0.30	0.40	D	Brown gravelly CLAY		17	Sample was quartered, oven dried at 107 °C			

Comments:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 099.16

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

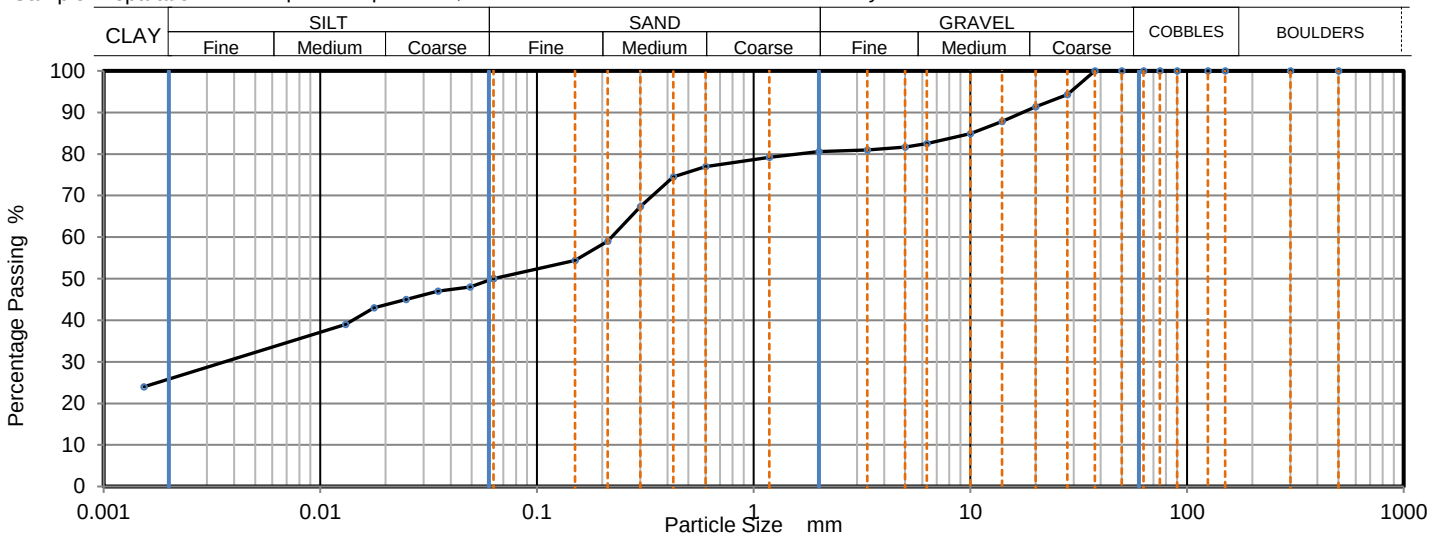
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534885	Depth Top [m]:	0.20
Hole No.:	BH06	Depth Base [m]:	1.00
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brown very gravelly very silty very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 109.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	50
300	100	0.0490	48
150	100	0.0349	47
125	100	0.0248	45
90	100	0.0177	43
75	100	0.0131	39
63	100	0.0015	24
50	100		
37.5	100		
28	94		
20	91		
14	88		
10	85		
6.3	83		
5	82		
3.35	81	Particle density	(assumed)
2	81	2.65	Mg/m3
1.18	79		
0.6	77		
0.425	75		
0.3	67		
0.212	59		
0.15	54		
0.063	50		

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	30
Silt	25
Clay	26

Grading Analysis		
D100	mm	37.5
D60	mm	0.221
D30	mm	0.00352
D10	mm	
Uniformity Coefficient		> 140
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

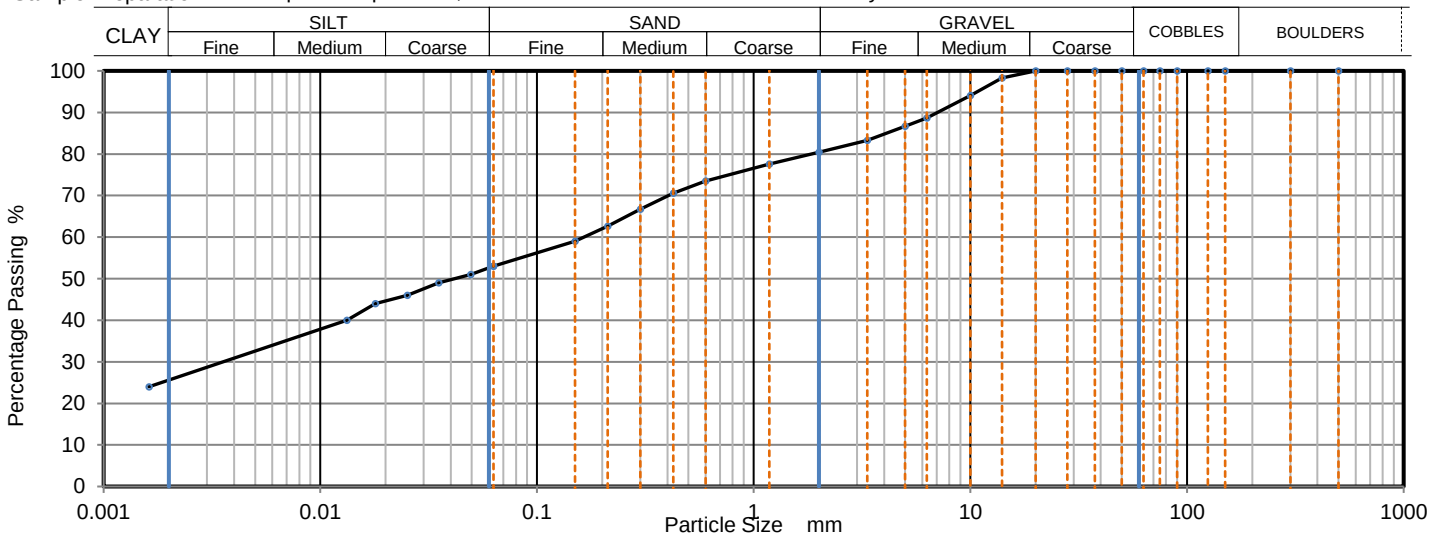
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534888	Depth Top [m]:	1.20
Hole No.:	BH07	Depth Base [m]:	1.70
Sample Reference:	B3	Sample Type:	B
Sample Description:	Greyish brown very gravelly very clayey very sandy SILT		
Sample Preparation:	Sample was quartered, oven dried at 109.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	53
300	100	0.0494	51
150	100	0.0352	49
125	100	0.0252	46
90	100	0.0179	44
75	100	0.0133	40
63	100	0.0016	24
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	94		
6.3	89		
5	87		
3.35	83	Particle density	(assumed)
2	80	2.65	Mg/m3
1.18	78		
0.6	74		
0.425	71		
0.3	67		
0.212	63		
0.15	59		
0.063	53		

Sample Proportions	% dry mass
Very coarse	0
Gravel	20
Sand	27
Silt	28
Clay	25

Grading Analysis		
D100	mm	20
D60	mm	0.165
D30	mm	0.00359
D10	mm	
Uniformity Coefficient		> 100
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

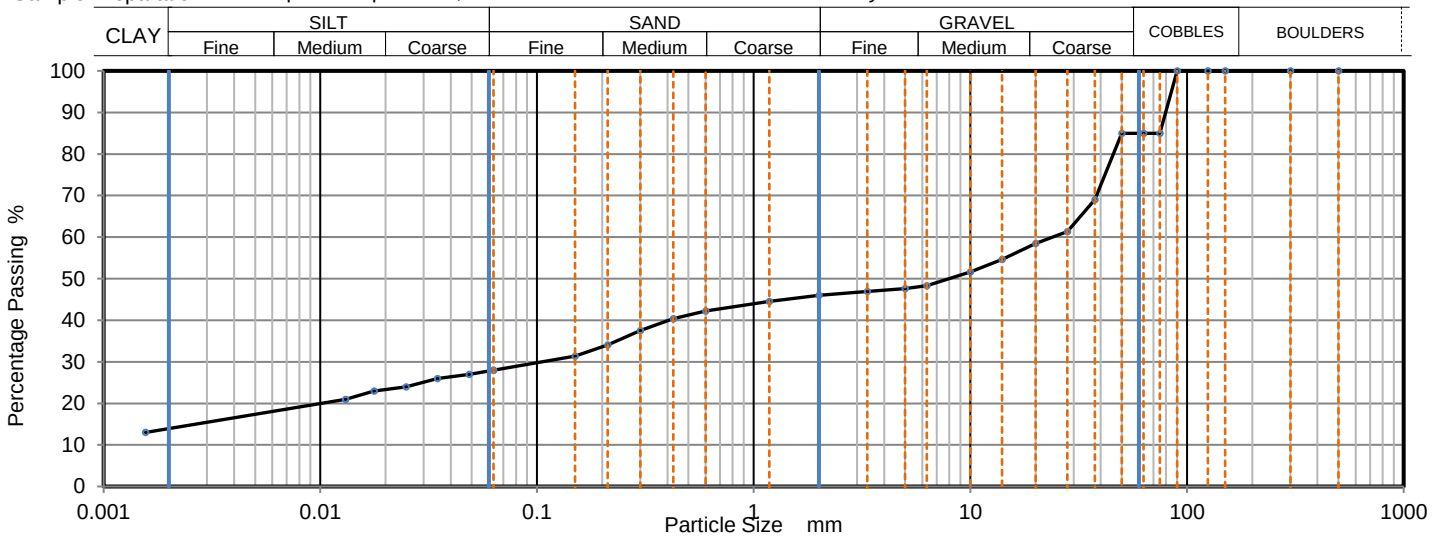
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534889	Depth Top [m]:	0.50
Hole No.:	DS209	Depth Base [m]:	0.80
Sample Reference:	B1	Sample Type:	B
Sample Description:	Brownish grey silty clayey sandy GRAVEL with cobbles		
Sample Preparation:	Sample was quartered, oven dried at 106.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	28
300	100	0.0487	27
150	100	0.0346	26
125	100	0.0248	24
90	100	0.0177	23
75	85	0.0131	21
63	85	0.0016	13
50	85		
37.5	69		
28	61		
20	59		
14	55		
10	52		
6.3	48		
5	48		
3.35	47	Particle density	(assumed)
2	46	2.65	Mg/m3
1.18	45		
0.6	42		
0.425	40		
0.3	38		
0.212	34		
0.15	31		
0.063	28		

Sample Proportions	% dry mass
Very coarse	15
Gravel	39
Sand	18
Silt	14
Clay	14

Grading Analysis		
D100	mm	90
D60	mm	23.9
D30	mm	0.109
D10	mm	
Uniformity Coefficient		> 15000
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

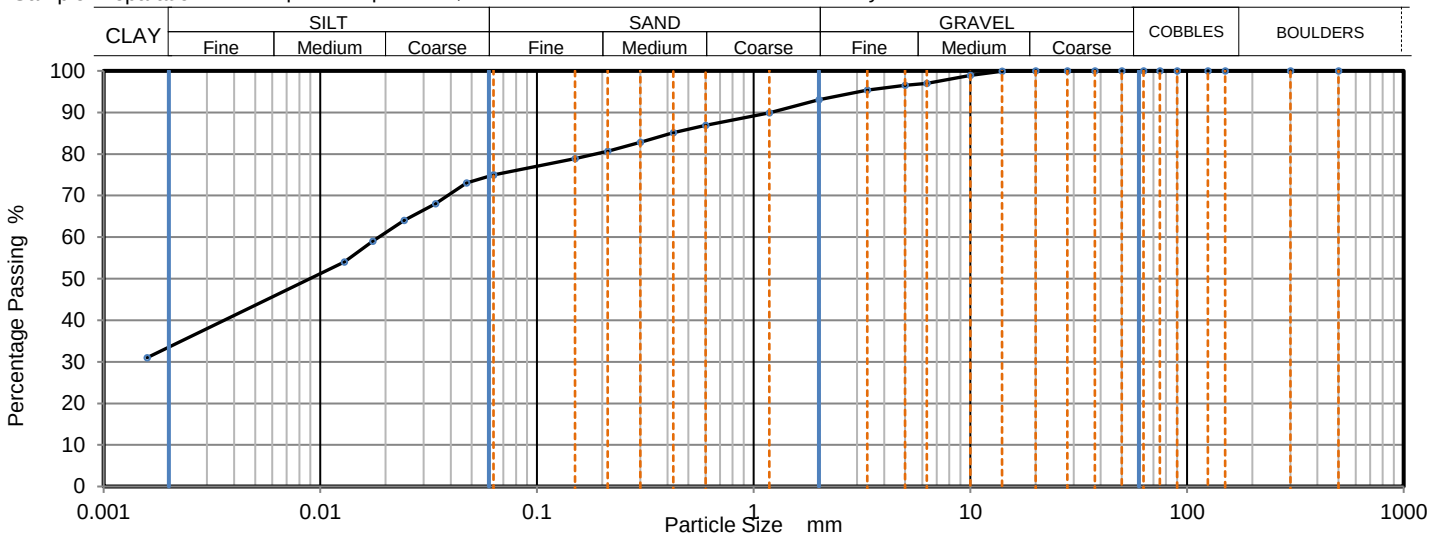
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534892	Depth Top [m]:	0.80
Hole No.:	BH09	Depth Base [m]:	0.80
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brownish grey slighlty gravelly sandy very clayey SILT		
Sample Preparation:	Sample was quartered, oven dried at 106.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	75
300	100	0.0473	73
150	100	0.0340	68
125	100	0.0243	64
90	100	0.0174	59
75	100	0.0129	54
63	100	0.0016	31
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	97		
5	97		
3.35	95	Particle density	(assumed)
2	93	2.65	Mg/m3
1.18	90		
0.6	87		
0.425	85		
0.3	83		
0.212	81		
0.15	79		
0.063	75		

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	18
Silt	42
Clay	33

Grading Analysis		
D100	mm	20
D60	mm	0.019
D30	mm	
D10	mm	
Uniformity Coefficient		> 12
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

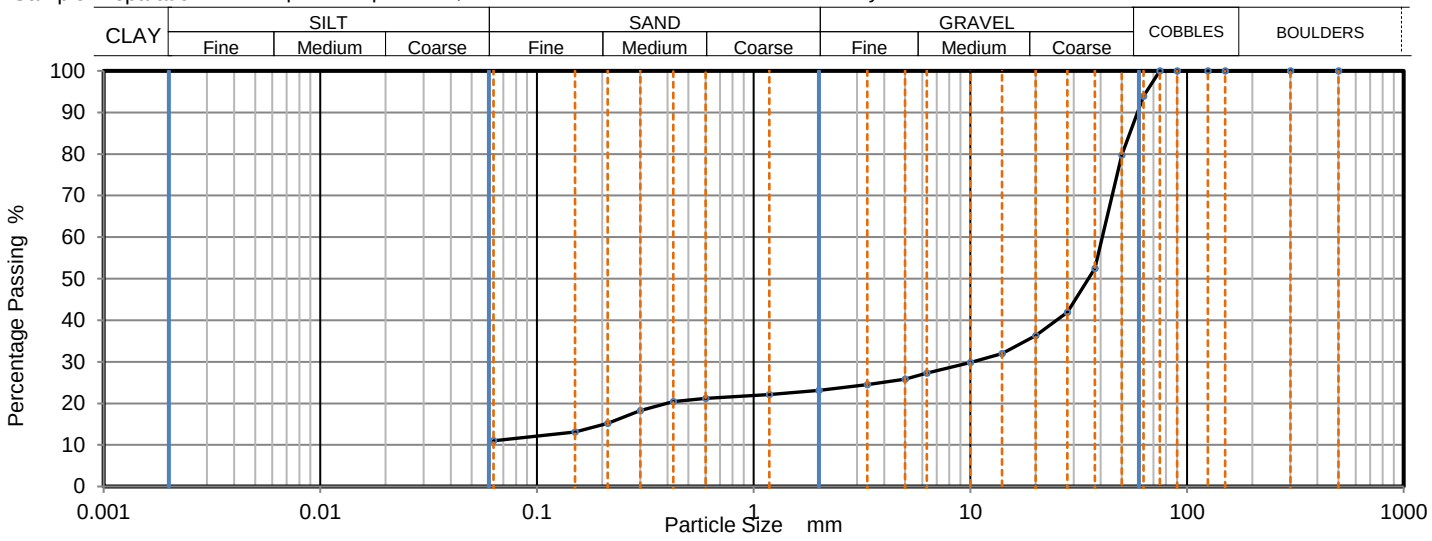
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Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534894	Depth Top [m]:	2.00
Hole No.:	BH05	Depth Base [m]:	2.00
Sample Reference:	B3	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL with cobbles		
Sample Preparation:	Sample was quartered, oven dried at 109.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	94		
50	80		
37.5	53		
28	42		
20	36		
14	32		
10	30		
6.3	27		
5	26		
3.35	25		
2	23		
1.18	22		
0.6	21		
0.425	20		
0.3	18		
0.212	15		
0.15	13		
0.063	11		

Sample Proportions	% dry mass
Very coarse	6
Gravel	71
Sand	12
Fines <0.063mm	11

Grading Analysis		
D100	mm	75
D60	mm	40.6
D30	mm	10.4
D10	mm	
Uniformity Coefficient		> 640
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

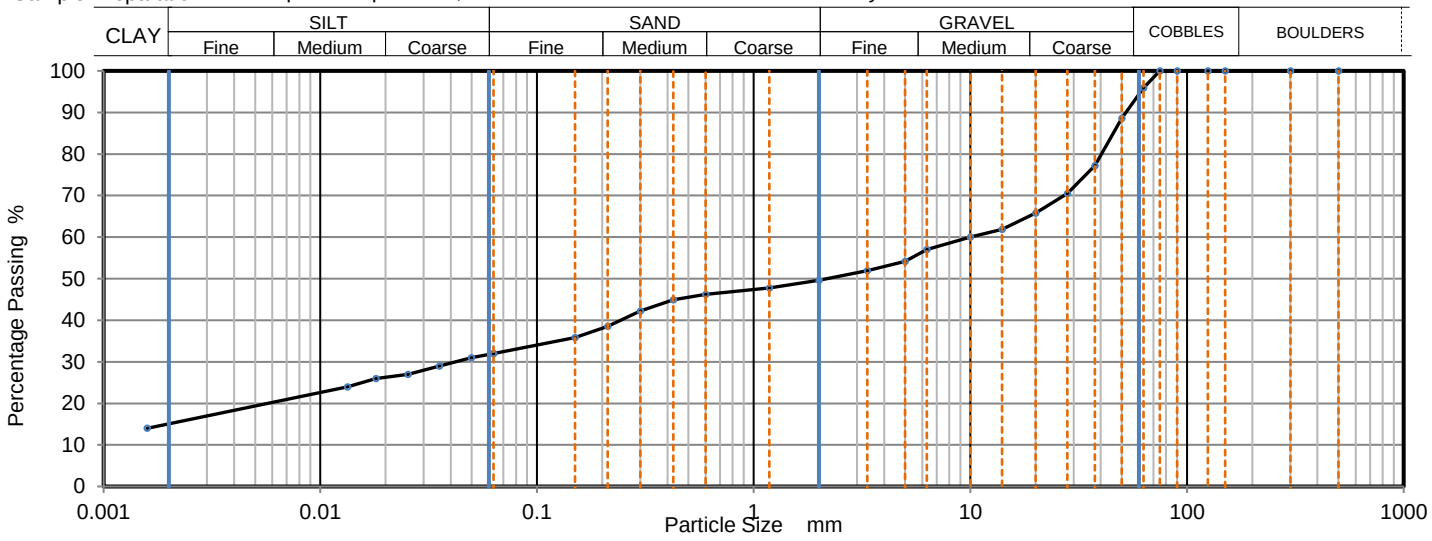
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534896	Depth Top [m]:	1.00
Hole No.:	BH05A	Depth Base [m]:	1.00
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brown sandy clayey GRAVEL with cobbles		
Sample Preparation:	Sample was quartered, oven dried at 106.2 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	32
300	100	0.0498	31
150	100	0.0354	29
125	100	0.0254	27
90	100	0.0181	26
75	100	0.0133	24
63	96	0.0016	14
50	89		
37.5	77		
28	71		
20	66		
14	62		
10	60		
6.3	57		
5	54		
3.35	52	Particle density	(assumed)
2	50	2.65	Mg/m3
1.18	48		
0.6	46		
0.425	45		
0.3	42		
0.212	39		
0.15	36		
0.063	32		

Sample Proportions	% dry mass
Very coarse	4
Gravel	46
Sand	18
Silt	17
Clay	15

Grading Analysis		
D100	mm	75
D60	mm	9.96
D30	mm	0.042
D10	mm	
Uniformity Coefficient		> 6300
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

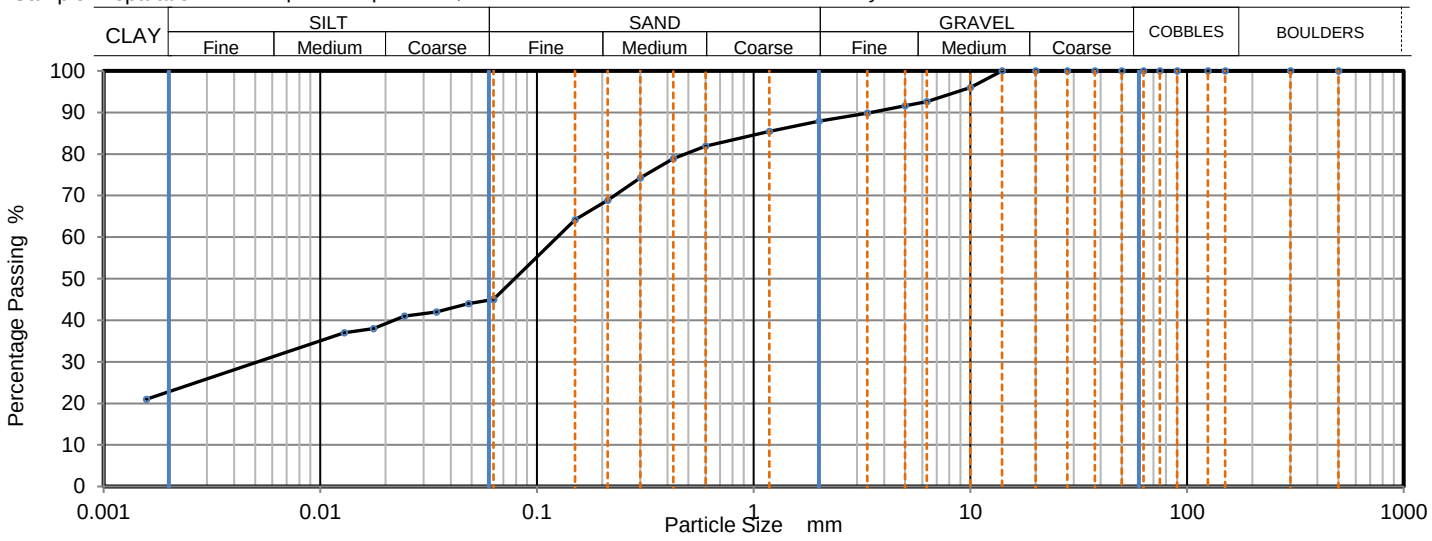
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534905	Depth Top [m]:	1.50
Hole No.:	BH04A	Depth Base [m]:	1.50
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brownish grey gravelly very silty very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 109.0 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	45
300	100	0.0482	44
150	100	0.0344	42
125	100	0.0245	41
90	100	0.0176	38
75	100	0.0129	37
63	100	0.0016	21
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	96		
6.3	93		
5	92		
3.35	90	Particle density	(measured)
2	88	2.56	Mg/m3
1.18	85		
0.6	82		
0.425	79		
0.3	74		
0.212	69		
0.15	64		
0.063	45		

Sample Proportions	% dry mass
Very coarse	0
Gravel	12
Sand	43
Silt	23
Clay	22

Grading Analysis		
D100	mm	14
D60	mm	0.124
D30	mm	0.00544
D10	mm	
Uniformity Coefficient		> 78
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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

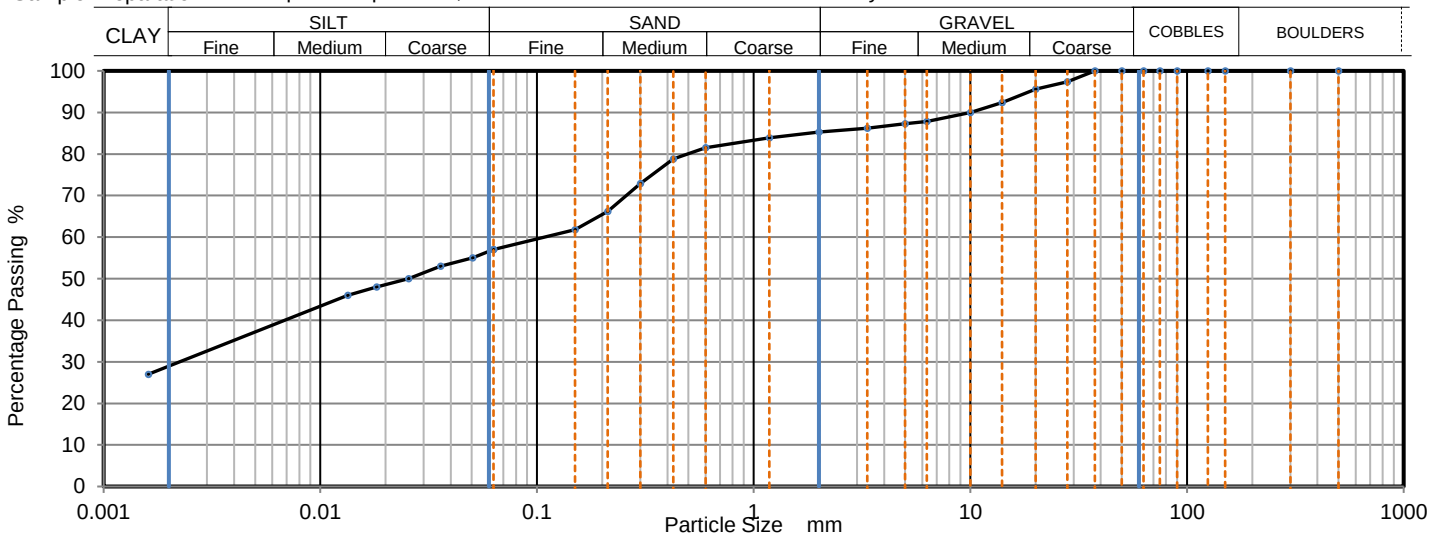
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	21/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534911	Depth Top [m]:	0.60
Hole No.:	BH01	Depth Base [m]:	1.00
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brown gravelly very silty very sandy CLAY		
Sample Preparation:	Sample was quartered, oven dried at 106.7 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	57
300	100	0.0504	55
150	100	0.0359	53
125	100	0.0255	50
90	100	0.0182	48
75	100	0.0134	46
63	100	0.0016	27
50	100		
37.5	100		
28	97		
20	96		
14	92		
10	90		
6.3	88		
5	87		
3.35	86	Particle density	(measured)
2	85	2.56	Mg/m3
1.18	84		
0.6	82		
0.425	79		
0.3	73		
0.212	66		
0.15	62		
0.063	57		

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	29
Silt	27
Clay	29

Grading Analysis		
D100	mm	37.5
D60	mm	0.11
D30	mm	0.00216
D10	mm	
Uniformity Coefficient		> 69
Curvature Coefficient		

Uniformity Coefficient calculated in accordance with BS EN ISO 14688-2:2018

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

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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

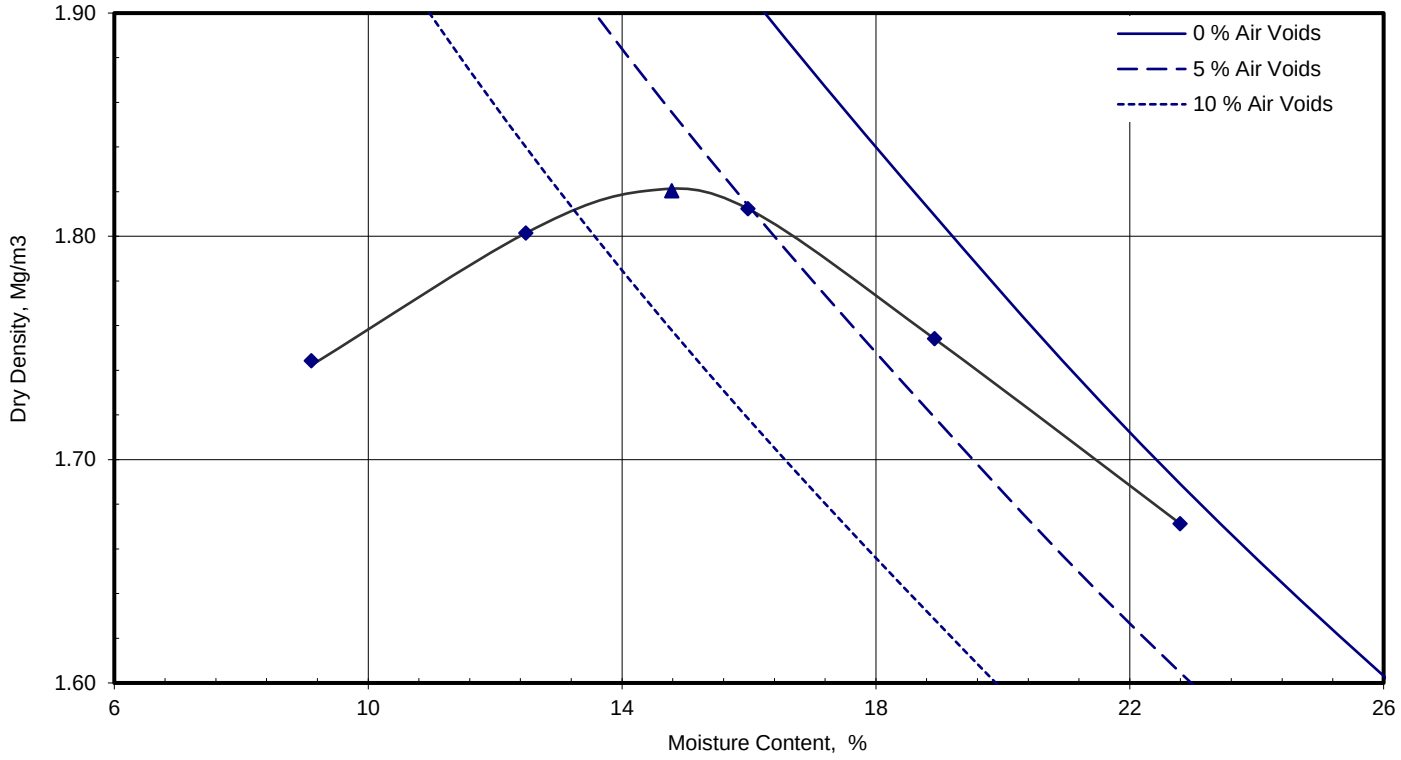
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534882	Depth Top [m]:	1.10
Hole No.:	DS219	Depth Base [m]:	1.80
Sample Reference:	B2	Sample Type:	B
Sample Description:	Greyish Brown slightly gravelly CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	9.1	12	16	19	23
Dry Density	Mg/m³	1.74	1.80	1.81	1.75	1.67

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	8
Particle Density - Assumed	Mg/m³	2.75
As received Moisture Content	%	19
Maximum Dry Density	Mg/m³	**1.82**

Optimum Moisture Content	%	**15**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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

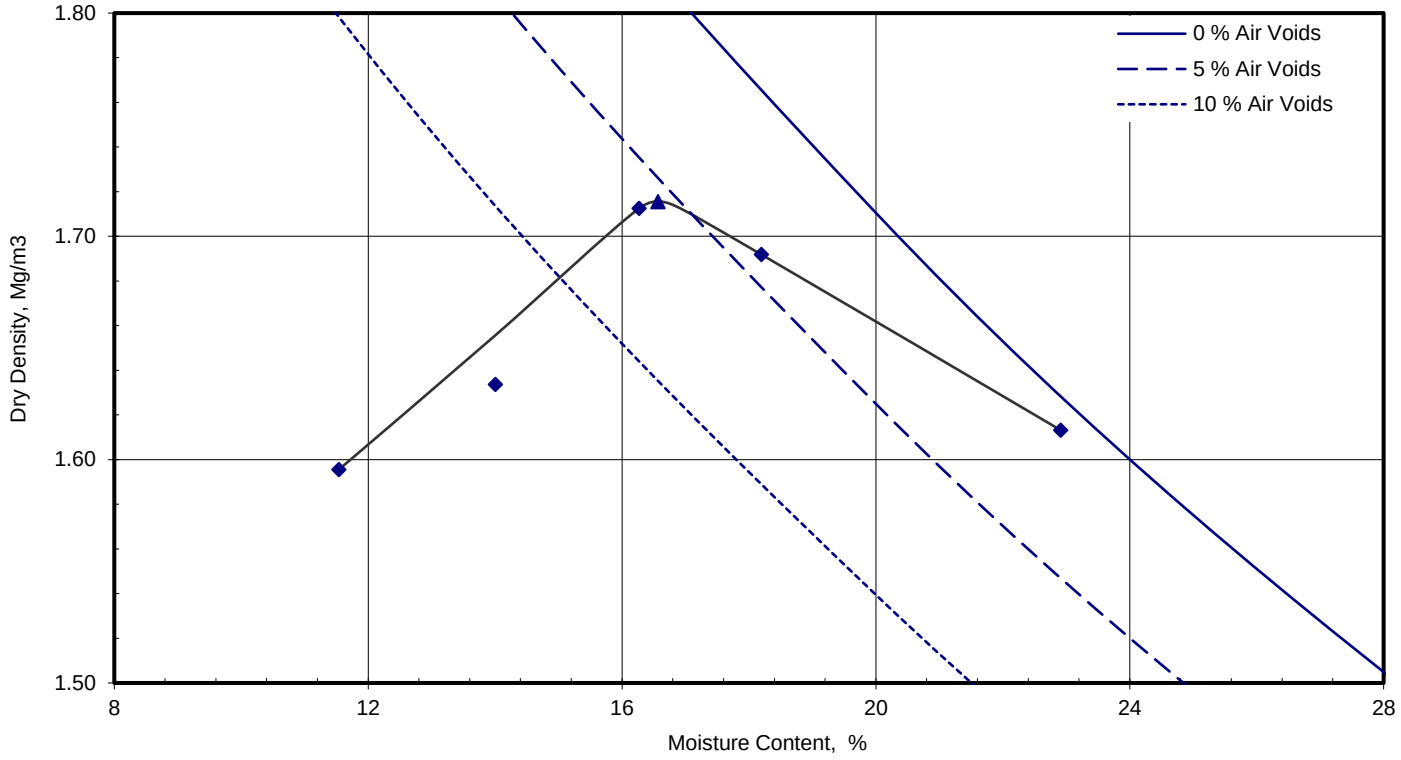
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534884	Depth Top [m]:	0.50
Hole No.:	DS212	Depth Base [m]:	1.00
Sample Reference:	B1	Sample Type:	B
Sample Description:	Yellowish brown gravelly CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	12	14	16	18	23
Dry Density	Mg/m³	1.60	1.63	1.71	1.69	1.61

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	4
Material Retained on 20.0 mm Sieve	%	10
Particle Density - Assumed	Mg/m³	2.60
As received Moisture Content	%	25
Maximum Dry Density	Mg/m³	**1.72**

Optimum Moisture Content	%	**17**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd
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Brackmills Industrial Estate
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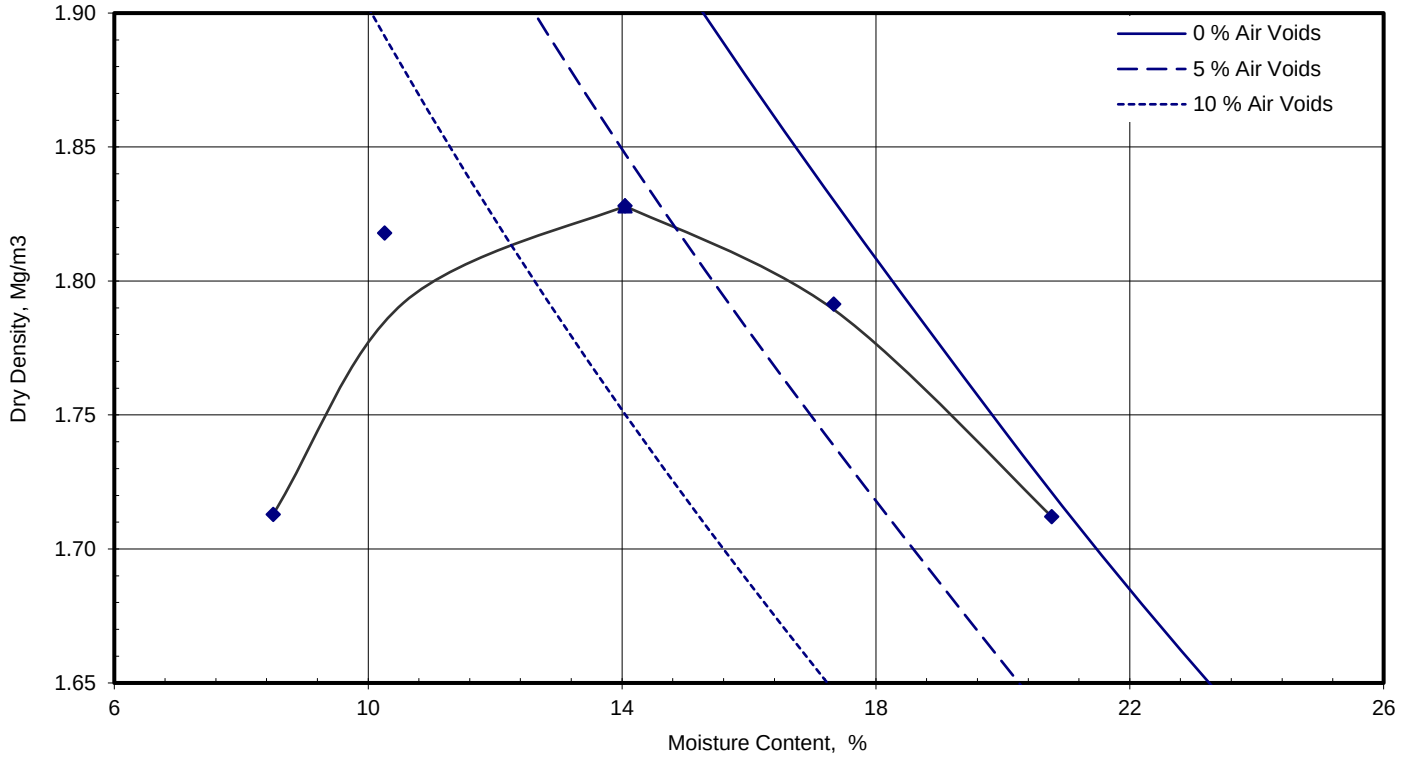
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534886	Depth Top [m]:	1.20
Hole No.:	BH06	Depth Base [m]:	1.70
Sample Reference:	B3	Sample Type:	B
Sample Description:	Brownish grey gravelly sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	8.5	10	14	17	21
Dry Density	Mg/m³	1.71	1.82	1.83	1.79	1.71

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	3
Particle Density - Measured using gas jar	Mg/m³	2.68
As received Moisture Content	%	21
Maximum Dry Density	Mg/m³	**1.83**

Optimum Moisture Content	%	**14**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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

UKAS TESTING 4041

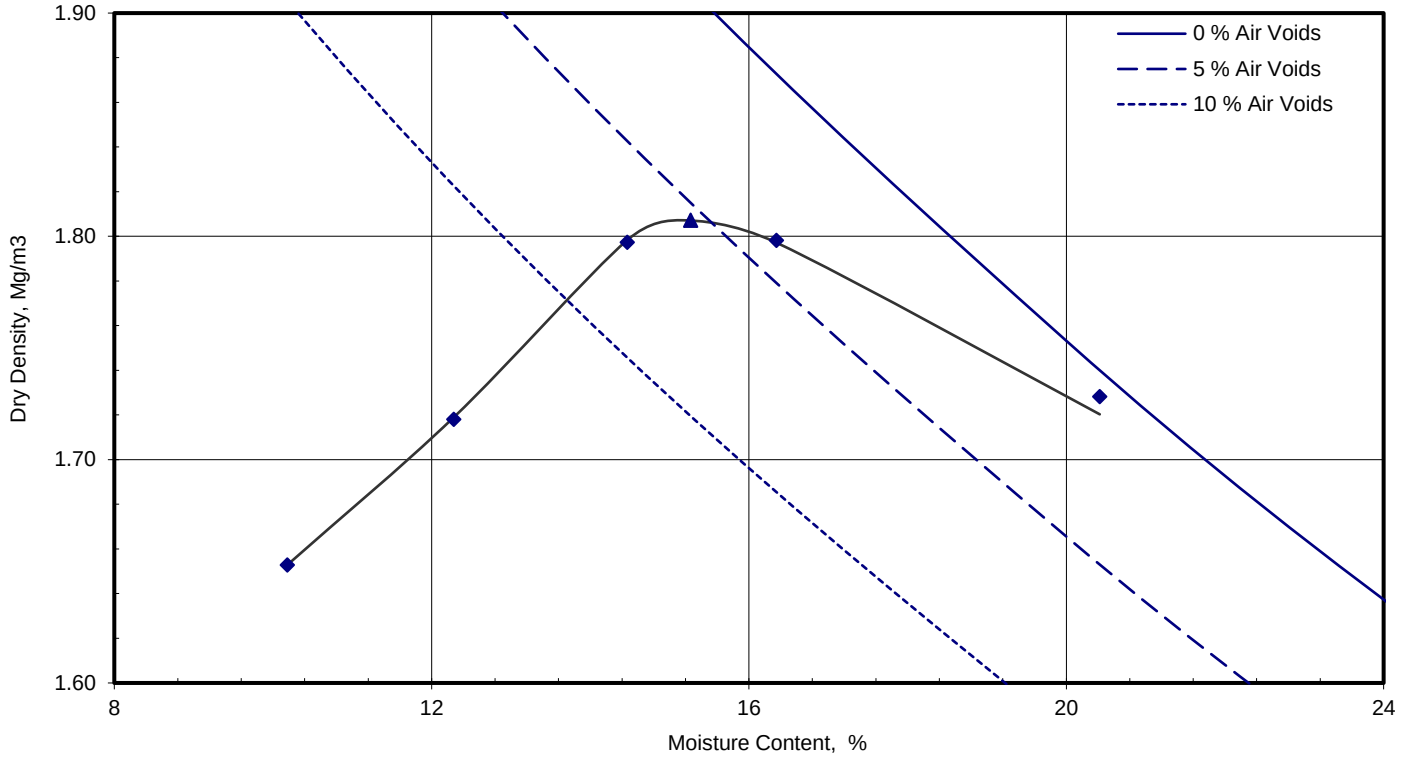
Environmental Science

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534887	Depth Top [m]:	0.80
Hole No.:	BH07	Depth Base [m]:	1.20
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brown mottled grey gravelly sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	10	12	14	16	20
Dry Density	Mg/m³	1.65	1.72	1.80	1.80	1.73

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	8
Material Retained on 20.0 mm Sieve	%	13
Particle Density - Measured using gas jar	Mg/m³	2.70
As received Moisture Content	%	20
Maximum Dry Density	Mg/m³	**1.81**

Optimum Moisture Content	%	**15**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
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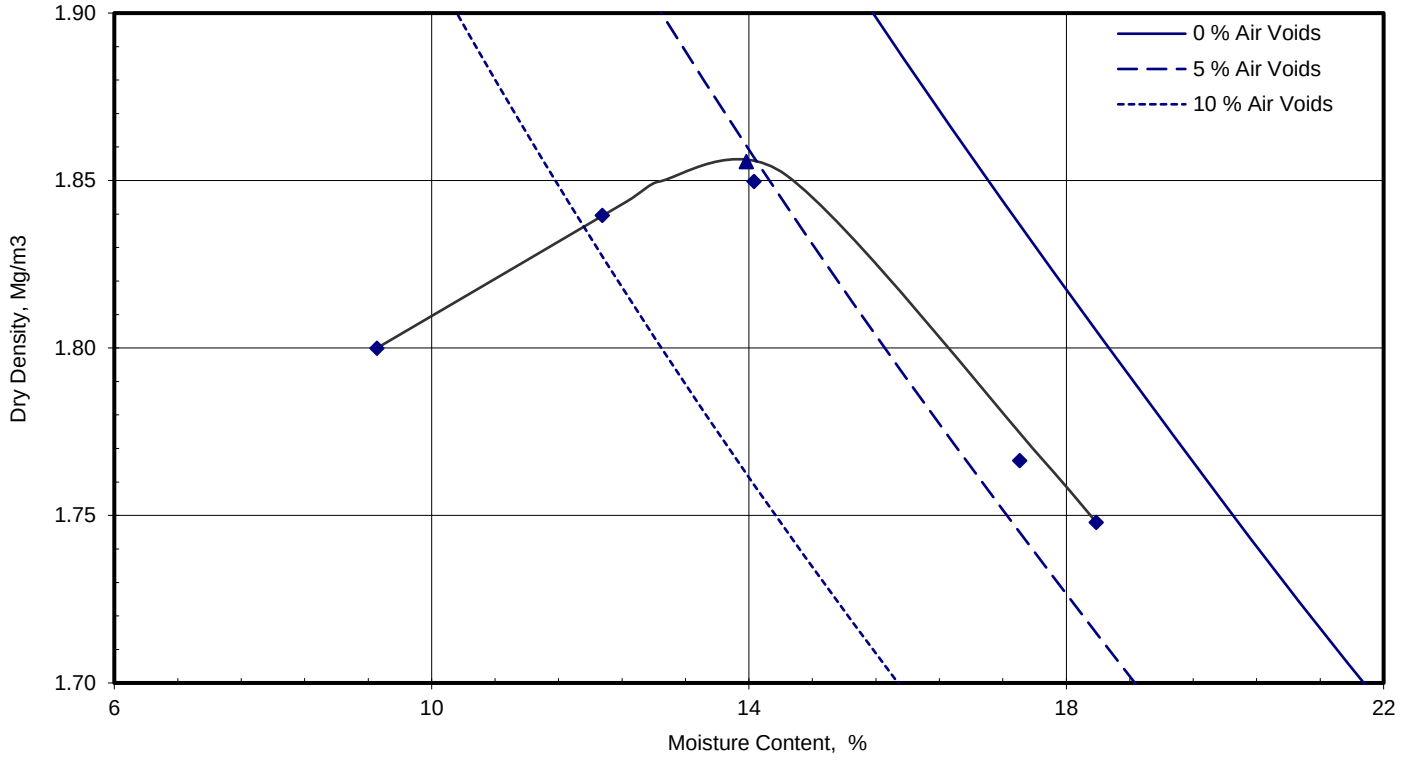
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534897	Depth Top [m]:	1.50
Hole No.:	BH05A	Depth Base [m]:	1.80
Sample Reference:	B3	Sample Type:	B
Sample Description:	Brownish grey gravelly sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	9.3	12	14	17	18
Dry Density	Mg/m³	1.80	1.84	1.85	1.77	1.75

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	23
Particle Density - Measured using gas jar	Mg/m³	2.70
As received Moisture Content	%	18
Maximum Dry Density	Mg/m³	**1.86**

Optimum Moisture Content	%	**14**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd
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Brackmills Industrial Estate
Northampton NN4 7EB

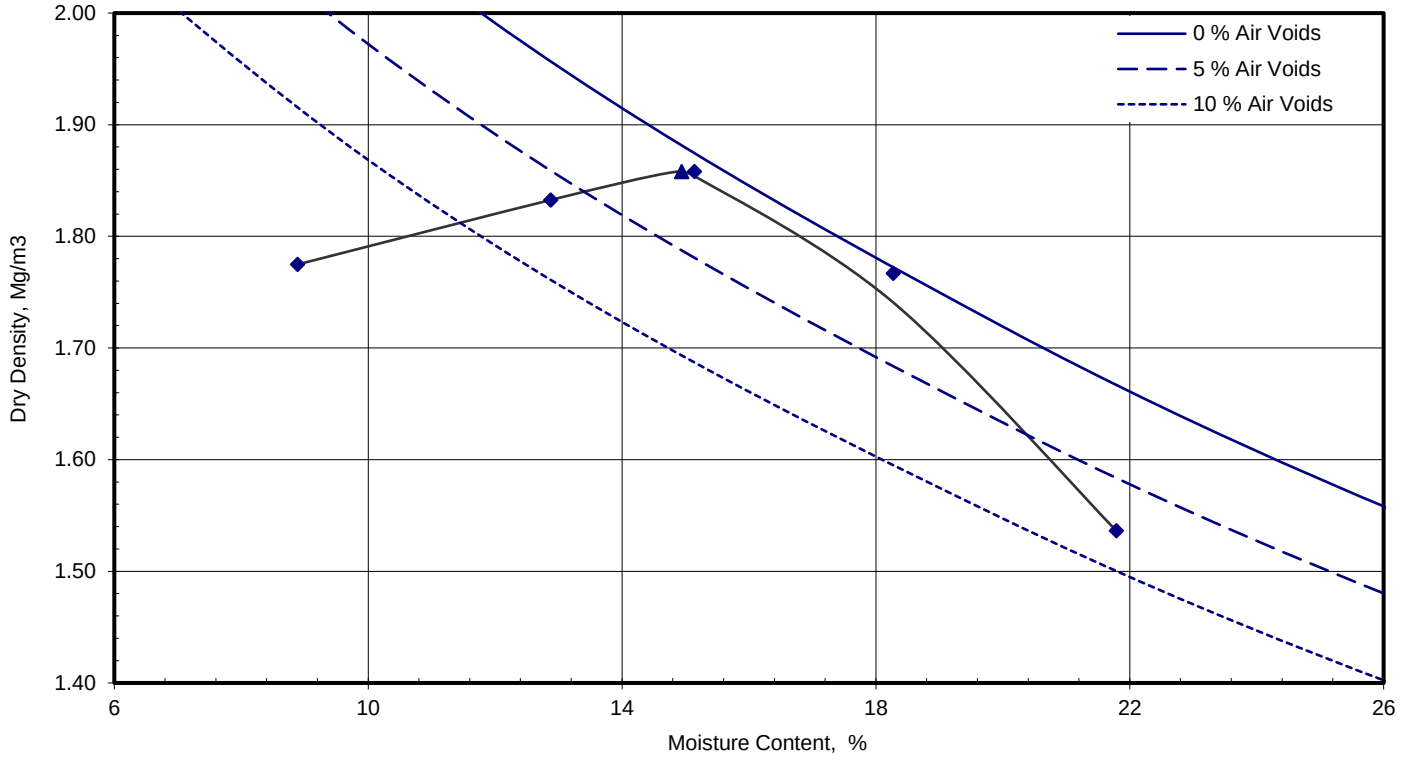
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534903	Depth Top [m]:	0.40
Hole No.:	DS207	Depth Base [m]:	0.80
Sample Reference:	B1	Sample Type:	B
Sample Description:	Yellowish brown gravelly sandy SILT		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	8.9	13	15	18	22
Dry Density	Mg/m³	1.77	1.83	1.86	1.77	1.54

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	5
Particle Density - Measured using gas jar	Mg/m³	2.62
As received Moisture Content	%	18
Maximum Dry Density	Mg/m³	**1.86**

Optimum Moisture Content	%	**15**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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

UKAS TESTING 4041

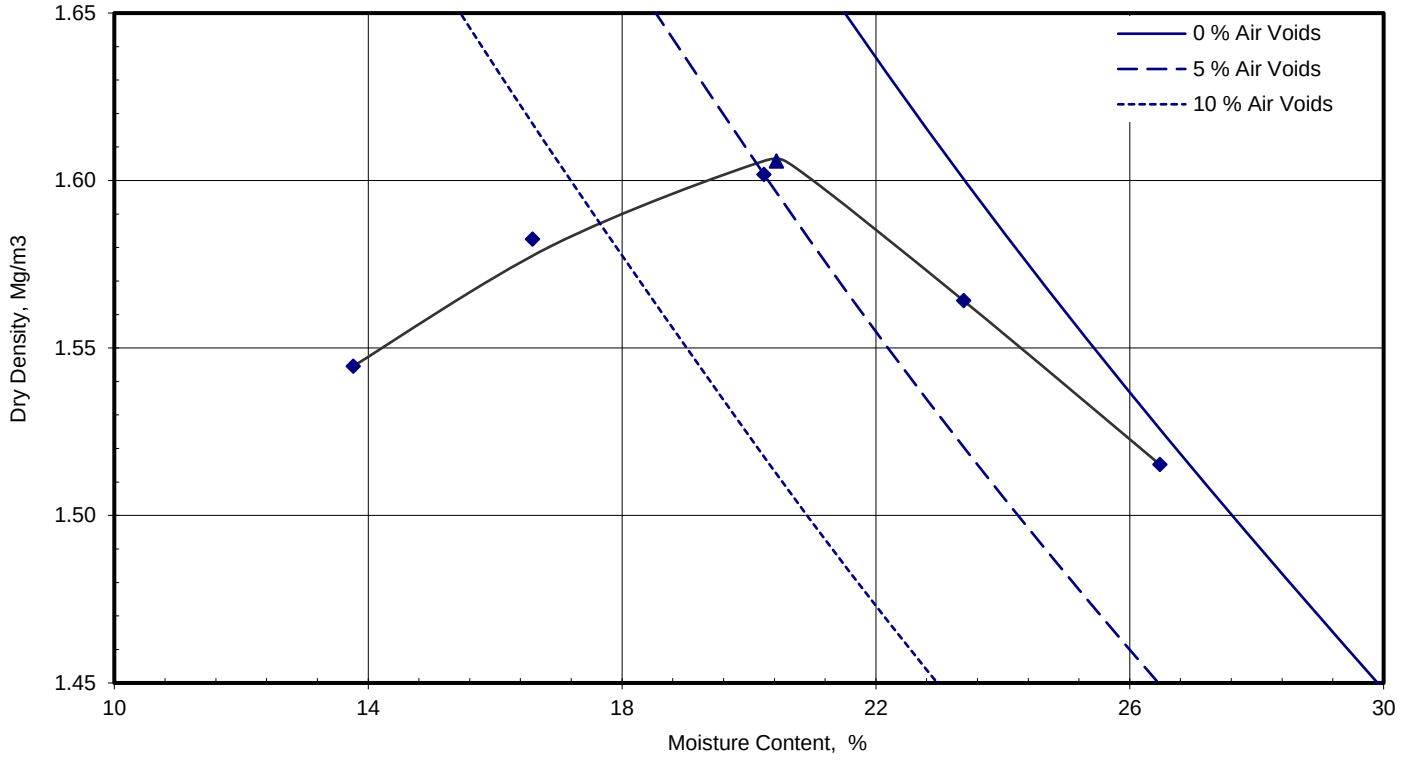
Environmental Science

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534905	Depth Top [m]:	1.50
Hole No.:	BH04A	Depth Base [m]:	1.50
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brownish grey gravelly very silty very clayey SAND		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	14	17	20	23	26
Dry Density	Mg/m³	1.54	1.58	1.60	1.56	1.52

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	5
Material Retained on 20.0 mm Sieve	%	18
Particle Density - Measured using gas jar	Mg/m³	2.56
As received Moisture Content	%	36
Maximum Dry Density	Mg/m³	**1.61**

Optimum Moisture Content	%	**20**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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Unit 8 Harrowden Road
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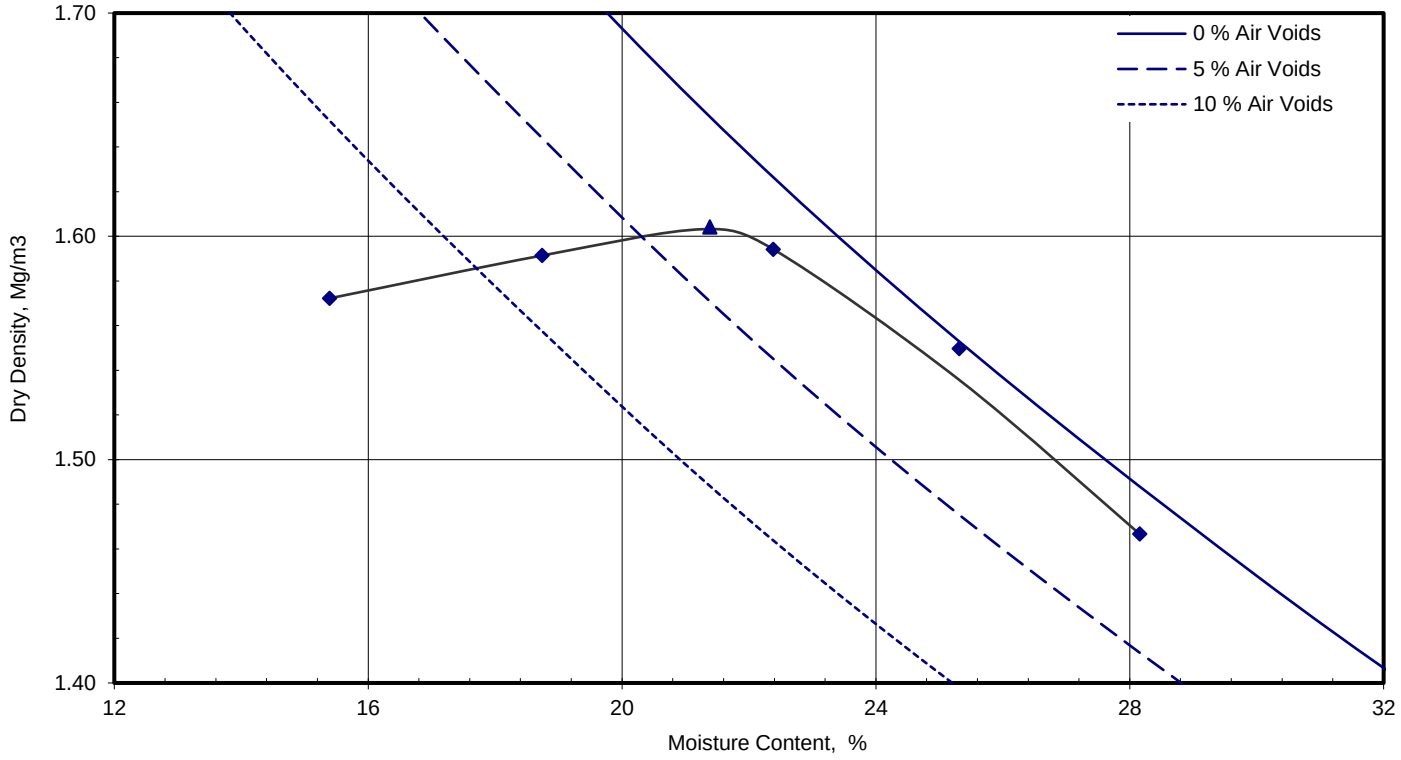
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534911	Depth Top [m]:	0.60
Hole No.:	BH01	Depth Base [m]:	1.00
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brown gravelly very silty very sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	15	19	22	25	28
Dry Density	Mg/m³	1.57	1.59	1.59	1.55	1.47

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	8
Particle Density - Measured using gas jar	Mg/m³	2.56
As received Moisture Content	%	28
Maximum Dry Density	Mg/m³	**1.60**

Optimum Moisture Content	%	**21**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
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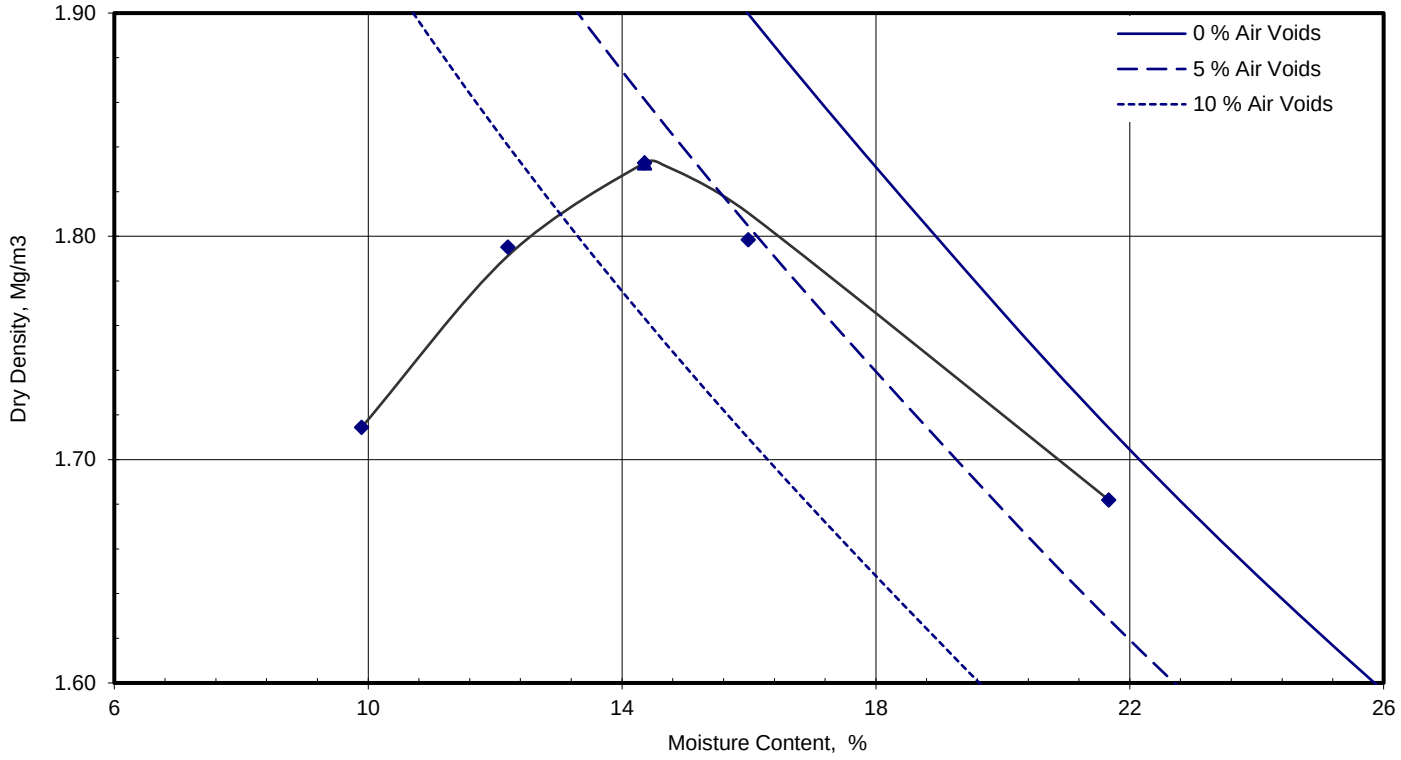
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534912	Depth Top [m]:	1.50
Hole No.:	BH01	Depth Base [m]:	1.80
Sample Reference:	B3	Sample Type:	B
Sample Description:	Brownish grey very gravelly sandy CLAY with plastic		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	9.9	12	14	16	22
Dry Density	Mg/m³	1.71	1.80	1.83	1.80	1.68

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	2
Material Retained on 20.0 mm Sieve	%	13
Particle Density - Measured using gas jar	Mg/m³	2.73
As received Moisture Content	%	22
Maximum Dry Density	Mg/m³	**1.83**

Optimum Moisture Content	%	**14**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks:

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Signed: [redacted]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 2.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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

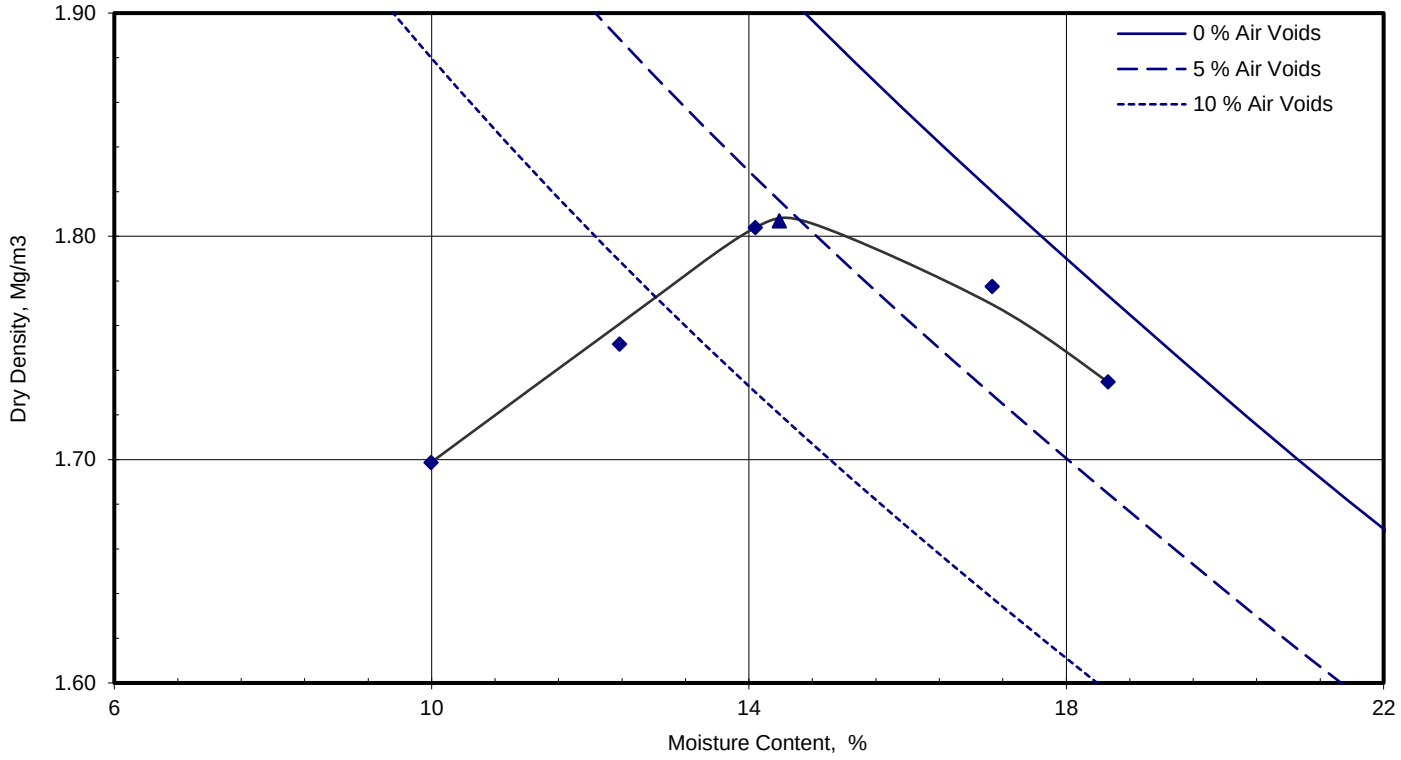
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534915	Depth Top [m]:	1.00
Hole No.:	BH08	Depth Base [m]:	1.50
Sample Reference:	B2	Sample Type:	B
Sample Description:	Greyish brown gravelly sandy CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	10.0	12	14	17	19
Dry Density	Mg/m³	1.70	1.75	1.80	1.78	1.73

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	5
Material Retained on 20.0 mm Sieve	%	18
Particle Density - Measured using gas jar	Mg/m³	2.64
As received Moisture Content	%	19
Maximum Dry Density	Mg/m³	**1.81**

Optimum Moisture Content	%	**14**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

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]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 109.22

TEST CERTIFICATE

DETERMINATION OF DRY DENSITY/MOISTURE CONTENT RELATIONSHIP METHOD USING 4.5 KG RAMMER

Tested in Accordance with: BS 1377-4: 1990

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

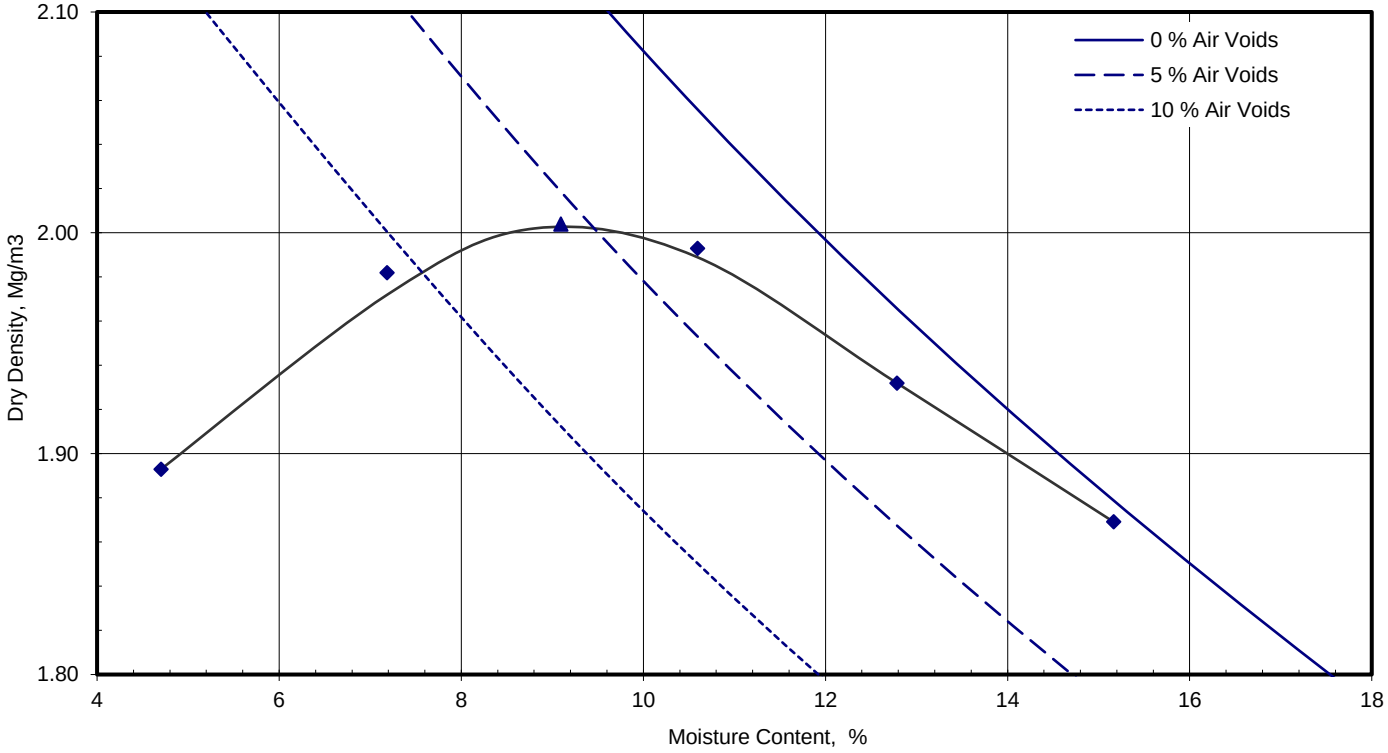
4041

Client:	BWB Consulting Limited	Client Reference:	NTH2479
Client Address:	Livery Place, 35 Livery Street Birmingham, B3 2PB	Job Number:	22-13502
		Date Sampled:	Not Given
		Date Received:	18/11/2022
Contact:	[redacted]	Date Tested:	28/12/2022
Site Address:	Oxfordshire RFI	Sampled By:	Not Given

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

Test Results:

Laboratory Reference:	2534893	Depth Top [m]:	1.00
Hole No.:	BH05	Depth Base [m]:	1.00
Sample Reference:	B2	Sample Type:	B
Sample Description:	Brown very clayey gravelly CLAY		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	4.7	7.2	11	13	15
Dry Density	Mg/m³	1.89	1.98	1.99	1.93	1.87

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	2
Material Retained on 20.0 mm Sieve	%	45
Particle Density - Measured using gas jar	Mg/m³	2.63
As received Moisture Content	%	17
Maximum Dry Density	Mg/m³	**2.00**

Optimum Moisture Content	%	**9.1**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.6 using 4.5kg [heavy] Rammer

Remarks: Zone X - test carried out as per client request

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]

[redacted]
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 30/12/2022

GF 110.22

[redacted]
BWB Consulting Limited
Livery Place
35 Livery Street Birmingham
B3 2PB

t: [redacted]
e:

i2 Analytical Ltd.
7 Woodshots Meadow,
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Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-13527

Project / Site name:	Oxfordshire RFI	**Samples received on:**	18/11/2022
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	15/12/2022
Your order number:	3653	**Analysis completed by:**	29/12/2022
Report Issue Number:	1	**Report issued on:**	29/12/2022
Samples Analysed:	8 soil samples		

Signed [redacted]

[redacted]
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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.

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-13527
Project / Site name: Oxfordshire RFI
Your Order No: 3653

Lab Sample Number				2535091	2535092	2535093	2535094	2535095
Sample Reference				DS219	DS215	DS212	DS213	BH09
Sample Number				D1	D1	D1	D2	D2
Depth (m)				1.30-1.40	0.40-0.50	0.40-0.50	0.80-1.00	0.90-0.90
Date Sampled				Deviating	Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	14	16	13	23
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9	0.9	0.9
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.5	8	8.1	8.3	8.5
Total Sulphate as SO4	%	0.005	MCERTS	0.38	0.067	0.069	0.078	0.094
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	2.1	0.018	0.067	0.027	0.22
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	2140	18.2	66.8	26.9	217
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	18	1.5	3.3	2.3	37
Total Sulphur	%	0.005	MCERTS	0.831	0.038	0.038	0.037	0.293
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	6.2	< 2.0	< 2.0	< 2.0
Heavy Metals / Metalloids								
Magnesium (water soluble)	mg/kg	5	NONE	44	7.1	6.6	6.7	27
Magnesium (leachate equivalent)	mg/l	2.5	NONE	22	3.5	3.3	3.3	13

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-13527
Project / Site name: Oxfordshire RFI
Your Order No: 3653

Lab Sample Number				2535096	2535097	2535098
Sample Reference				DS202	DS207	BH04A
Sample Number				D1	D2	D1
Depth (m)				0.70-0.80	0.80-0.80	0.60-0.60
Date Sampled				Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	15	15
Total mass of sample received	kg	0.001	NONE	0.9	0.9	0.9

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	8	7.6
Total Sulphate as SO4	%	0.005	MCERTS	0.086	0.127	0.291
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.032	0.39	1.8
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	31.5	390	1800
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.1	6.5	9.8
Total Sulphur	%	0.005	MCERTS	0.134	0.169	0.375
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	2.2	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	6.3	18	59
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.2	8.8	29

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 22-13527
Project / Site name: Oxfordshire RFI

* 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 *
2535091	DS219	D1	1.30-1.40	Brown clay and sand with gravel.
2535092	DS215	D1	0.40-0.50	Brown clay and sand with gravel and vegetation.
2535093	DS212	D1	0.40-0.50	Brown clay and sand with gravel and vegetation.
2535094	DS213	D2	0.80-1.00	Brown clay and sand with gravel.
2535095	BH09	D2	0.90-0.90	Brown silt.**
2535096	DS202	D1	0.70-0.80	Brown clay and sand with gravel and vegetation.
2535097	DS207	D2	0.80-0.80	Brown clay and sand with gravel and vegetation.
2535098	BH04A	D1	0.60-0.60	Brown clay and sand with gravel and vegetation.

**NON ACCREDITED MATRIX

Analytical Report Number : 22-13527
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
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
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	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
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	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 or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

Sample Deviation Report

Analytical Report Number : 22-13527
Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH04A	D1	S	2535098	a	None Supplied	None Supplied	None Supplied
BH09	D2	S	2535095	a	None Supplied	None Supplied	None Supplied
DS202	D1	S	2535096	a	None Supplied	None Supplied	None Supplied
DS207	D2	S	2535097	a	None Supplied	None Supplied	None Supplied
DS212	D1	S	2535093	a	None Supplied	None Supplied	None Supplied
DS213	D2	S	2535094	a	None Supplied	None Supplied	None Supplied
DS215	D1	S	2535092	a	None Supplied	None Supplied	None Supplied
DS219	D1	S	2535091	a	None Supplied	None Supplied	None Supplied

[redacted]
BWB Consulting Limited
11 Borough High Street
London
SE1 9SE

t: [redacted]
e:

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

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 23-11377

Project / Site name:	Oxfordshire RFI	**Samples received on:**	12/01/2023
Your job number:	NTH2479	**Samples instructed on/ Analysis started on:**	12/01/2023
Your order number:	3653	**Analysis completed by:**	18/01/2023
Report Issue Number:	1	**Report issued on:**	26/01/2023
Samples Analysed:	2 soil samples		

Signed: [redacted]

[redacted]
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 23-11377
Project / Site name: Oxfordshire RFI
Your Order No: 3653

Lab Sample Number				2551634	2551635
Sample Reference				DS211	DS216
Sample Number				1	1
Depth (m)				0.50-1.00	0.30-0.40
Date Sampled				Deviating	Deviating
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Stone Content	%	0.1	NONE	83	< 0.1
Moisture Content	%	0.01	NONE	6	12
Total mass of sample received	kg	0.001	NONE	0.4	0.4

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	8.3
Total Sulphate as SO4	%	0.005	MCERTS	0.054	0.061
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0059	0.0052
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.7	2
Total Sulphur	%	0.005	MCERTS	0.026	0.036
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	< 2.5

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

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 23-11377
Project / Site name: Oxfordshire RFI

* 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 *
2551634	DS211	1	0.50-1.00	Brown clay and sand with stones.
2551635	DS216	1	0.30-0.40	Brown clay and sand with gravel.

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 23-11377
Project / Site name: Oxfordshire RFI

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, 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
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
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
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08, 2:1 extraction.	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 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.

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number : 23-11377

Project / Site name: Oxfordshire RFI

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
DS211	1	S	2551634	a	None Supplied	None Supplied	None Supplied
DS216	1	S	2551635	a	None Supplied	None Supplied	None Supplied

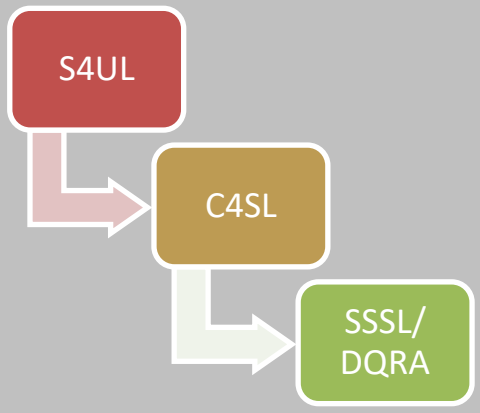
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The results included within the report relate only to the sample(s) submitted for testing.

Appendix 8 : Soil Leachate Assessment Results

Human Health Generic QRA Worksheet

Job Name	Job Number
Oxfordshire RFI	NTH2479

GSAC Hierarcy



Define CSM – Is site represented by a standard land use?

Residential with / without homegrown produce
Commercial / Industrial
Public Open Space - Residential (S4UL/C4SL only)
Public Open Space - Park (S4UL/C4SL only)

GSAC Type (BWB, LQM S4UL, C4SL, Bespoke)	**LQM_CIEH_S4UL**
Key Receptor/CSM (Residential/Commercial/POS)	**S4UL Public open space (park)**
Organic Matter % (If unknown use 1%)	**2.5**

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Publication Number S4UL3271

Generic Assessment Criteria Job Name Job Number	S4UL Public open space (park) mg/kg	Source
Arsenic	1.70E+02	LQM_CIEH_S4UL
Barium	1.35E+03	LQM_CIEH_S4UL
Beryllium	6.30E+01	LQM_CIEH_S4UL
Boron	4.60E+04	LQM_CIEH_S4UL
Cadmium	5.32E+02	LQM_CIEH_S4UL
Chromium VI	2.20E+02	LQM_CIEH_S4UL
Chromium III	3.30E+04	LQM_CIEH_S4UL
Copper	4.40E+04	LQM_CIEH_S4UL
Lead*	1.30E+03	DEFRA_C4SL
Inorganic Mercury	2.40E+02	LQM_CIEH_S4UL
Nickel	3.40E+03	LQM_CIEH_S4UL
Selenium	1.80E+03	LQM_CIEH_S4UL
Vanadium	5.00E+03	LQM_CIEH_S4UL
Zinc	1.70E+05	LQM_CIEH_S4UL
Cyanide (Free)	4.30E+01	BWB
Cyanide (Complex)	2.13E+02	BWB
Phenols (Total)	6.90E+02	LQM_CIEH_S4UL
Benzene	1.00E+02	LQM_CIEH_S4UL
Toluene	9.50E+04	LQM_CIEH_S4UL
Ethyl benzene	2.20E+04	LQM_CIEH_S4UL
Total Xylene	2.30E+04	LQM_CIEH_S4UL
TPH (EC5-6) aliphatic	1.30E+05	LQM_CIEH_S4UL
TPH (>EC6-8) aliphatic	2.20E+05	LQM_CIEH_S4UL
TPH (>EC8-10) aliphatic	1.80E+04	LQM_CIEH_S4UL
TPH (>EC10-12) aliphatic	2.30E+04	LQM_CIEH_S4UL
TPH (>EC12-16) aliphatic	2.50E+04	LQM_CIEH_S4UL
TPH (>EC16-21) aliphatic	4.80E+05	LQM_CIEH_S4UL
TPH (>EC21-35) aliphatic	4.80E+05	LQM_CIEH_S4UL
TPH (>EC35-44) aliphatic	4.80E+05	LQM_CIEH_S4UL
TPH (>EC6-7) aromatic (benzene)	8.40E+04	LQM_CIEH_S4UL
TPH (>EC7-8) aromatic (toluene)	9.50E+04	LQM_CIEH_S4UL
TPH (>EC8-10) aromatic	8.50E+03	LQM_CIEH_S4UL
TPH (>EC10-12) aromatic	9.70E+03	LQM_CIEH_S4UL
TPH (>EC12-16) aromatic	1.00E+04	LQM_CIEH_S4UL
TPH (>EC16-21) aromatic	7.70E+03	LQM_CIEH_S4UL
TPH (>EC21-35) aromatic	7.80E+03	LQM_CIEH_S4UL
TPH (>EC35-44) aromatic	7.80E+03	LQM_CIEH_S4UL
Total TPH	5.00E+02	LQM_CIEH_S4UL
Naphthalene	1.90E+03	LQM_CIEH_S4UL
Acenaphthylene	3.00E+04	LQM_CIEH_S4UL
Acenaphthene	3.00E+04	LQM_CIEH_S4UL
Fluorene	2.00E+04	LQM_CIEH_S4UL
Phenanthrene	6.20E+03	LQM_CIEH_S4UL
Anthracene	1.50E+05	LQM_CIEH_S4UL
Fluoranthene	6.30E+03	LQM_CIEH_S4UL
Pyrene	1.50E+04	LQM_CIEH_S4UL
Benzo(a)anthracene	5.60E+01	LQM_CIEH_S4UL

Generic Assessment Criteria Job Name Job Number	S4UL Public open space (park) mg/kg	Source
Chrysene	1.10E+02	LQM_CIEH_S4UL
Benzo(b)fluoranthene	1.50E+01	LQM_CIEH_S4UL
Benzo(k)fluoranthene	4.10E+02	LQM_CIEH_S4UL
Benzo(a)pyrene	1.20E+01	LQM_CIEH_S4UL
Indeno(1,2,3-c,d)pyrene	1.70E+02	LQM_CIEH_S4UL
Dibenzo(a,h)anthracene	1.30E+00	LQM_CIEH_S4UL
Benzo(g,hi)perylene	1.50E+03	LQM_CIEH_S4UL
Coal Tar (B(a)P as surrogate marker	4.70E+00	LQM_CIEH_S4UL
Tetrachloroethene (PCE)	1.10E+03	LQM_CIEH_S4UL
Trichloroethene (TCE)	9.10E+01	LQM_CIEH_S4UL
***cis* -1,2-Dichloroethene**	0.00E+00	LQM_CIEH_S4UL
Vinyl Chloride (VC)	5.00E+00	LQM_CIEH_S4UL
1,1,2,2-Tetrachloroethane (PCA)	2.10E+03	LQM_CIEH_S4UL
1,1,1-Trichloroethane (TCA)	7.60E+04	LQM_CIEH_S4UL
1,2-Dichloroethane	2.40E+01	LQM_CIEH_S4UL
Carbon Tetrachloride	2.70E+02	LQM_CIEH_S4UL
Carbon disulphide	1.90E+03	LQM_CIEH_S4UL

Location	Sample depth	Easting	Northing	Strata Type	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium VI	Chromium III	Copper	Lead	Inorganic Mercury	Nickel	Selenium	Vanadium	Zinc	Cyanide (Free)	Cyanide (Complex)	Phenols (Total)
Detection Limit																					
GSAC					1.70E+02	1.35E+03	6.30E+01	4.60E+04	5.32E+02	2.20E+02	3.30E+04	4.40E+04	1.30E+03	2.40E+02	3.40E+03	1.80E+03	5.00E+03	1.70E+05	4.30E+01	2.13E+02	6.90E+02
DS217	0.20-0.30				12	44	0.75	0.2	0.2	1.8	19	12	12	0.3	17	1	33	39	1	1	1
DS217	1.80-1.90				27	160	1.6	1	0.2	1.8	51	54	170	0.3	41	1	68	260	1	1.7	1
DS217	2.50-2.60				32	67	1.4	0.9	0.2	1.8	56	22	42	0.3	36	1	90	97	1	1	1
DS218A	5.30-5.60				16	72	0.78	25	0.2	1.8	34	27	38	0.3	23	1	47	320	1	1	1
DS219	1.20-1.30				7.6	9	0.32	0.2	0.2	1.8	8.4	4.8	4.7	0.3	8.2	1	17	11	1	1	1
DS219	1.90-2.00				11	30	0.45	0.2	0.2	1.8	13	13	10	0.3	11	1	28	28	1	1	1
DS219A	1.70-1.80																				
DS216	0.20-0.30				15	59	0.78	0.2	0.2	1.8	22	14	16	0.3	17	1	41	40	1	1	1
DS216	2.60-2.70				16	36	0.98	0.3	0.2	1.8	44	18	21	0.3	28	1	57	85	1	1	1
DS215	1.70-1.90																				
BH07	0.30				14	48	0.77	0.3	0.2	1.8	21	12	15	0.3	16	1	39	43	1	1	1
BH07	0.85				12	44	0.74	0.6	0.2	1.8	20	16	12	0.3	15	1	36	35	1	1	1
BH07	5.50-6.00				13	31	0.68	0.6	0.2	1.8	28	15	19	0.3	24	1	41	78	1	1	1
BH07	5.50-6.00																				
BH06	1.90				8.2	16	0.42	0.2	0.2	1.8	11	7.3	7.2	0.3	9.9	1	20	18	1	1	1
BH06	2.80				13	31	0.55	1.6	0.2	1.8	18	14	17	0.3	13	1	34	38	1	1	1
BH06	5.00-5.50																				
BH06	6.20-6.30																				
DS212	2.10-2.20																				
DS209	1.20-1.40				13	50	0.65	0.9	0.2	1.8	19	15	17	0.3	15	1	37	43	1	1	1
DS209	3.00-3.20				9.1	36	0.4	0.4	0.4	1.8	14	9.9	15	0.3	12	1	31	42	1	1	1
DS209	5.00-5.20				11	21	0.43	2.1	0.2	1.8	11	12	13	0.3	11	1	20	26	1	1	1
DS210	1.60				12	25	0.89	2.5	0.2	1.8	28	14	12	0.3	29	1	45	54	1	1	1
DS211	1.70																				
DS213	0.40-0.80				10	38	0.61	0.2	0.2	1.8	16	10	14	0.3	13	1	29	32	1	1	1
DS213	1.80-1.90				14	110	0.6	0.7	0.7	1.8	18	17	40	0.3	14	1	35	93	1	1	1
DS201	0.70-0.80				6.5	9.9	0.42	0.4	0.2	1.8	8.3	7.2	5.4	0.3	8.8	1	16	12	1	1	1
DS201	1.80-1.90																				
DS202	2.15-2.20				9.9	52	0.41	4.6	0.5	1.8	33	18	17	0.3	21	1	26	60	1	1	1
DS203	1.10-1.30				7.6	10	0.32	0.2	0.2	1.8	8.2	5.8	5.6	0.3	9.3	1	17	13	1	1	1
DS203	2.20-2.30				23	35	0.72	0.5	0.2	1.8	26	15	15	0.3	19	1	53	66	1	1	8.1
DS207	0.20-0.30				16	59	1.1	0.3	0.2	1.8	27	13	21	0.3	21	1	49	52	1	1	1
DS207	2.40-2.50																				
DS214	0.70-0.80																				
DS205	0.20-0.30				14	58	0.92	0.5	0.2	1.8	24	11	16	0.3	20	1	40	44	1	1	1
DS205	2.20-2.40				12	110	0.66	4.1	0.2	1.8	20	21	23	0.3	15	1	34	77	1	1.4	1
DS206	0.80-0.90				8.7	21	0.48	0.4	0.2	1.8	12	7.1	7.4	0.3	11	1	23	24	1	1	1
DS206	1.60-1.70				6.1	7.9	0.3	0.3	0.2	1.8	7.5	5.3	4.6	0.3	7.1	1	15	10	1	1	1
DS206	2.10-2.30				17	70	0.78	2.3	0.2	1.8	19	13	20	0.3	18	1	43	50	1	1	1
DS208	2.40-2.60																				
BH09	0.30				12	53	0.86	1.4	0.2	1.8	22	12	15	0.3	17	1	37	42	1	1	1
BH09	3.40-3.50				15	63	0.9	0.8	0.2	1.8	25	13	15	0.3	21	1	40	49	1	1	1
BH09	4.10-4.20				12	45	0.75	0.4	0.2	1.8	20	12	11	0.3	17	1	33	40	1	1	1
BH09	5.90-6.00				13	100	0.57	2.7	0.2	1.8	18	27	50	0.3	15	1	27	99	1	1.9	1
BH09	7.90-8.00				18	88	0.75	3.1	0.8	1.8	24	200	54	0.3	18	1	36	150	1	1.2	1
BH05	0.30																				
BH05A	0.40																				
BH05A	1.60																				
BH05A	2.60				13	82	0.71	2.6	0.2	1.8	30	130	31	0.3	26	1	29	360	1	1	1
BH05A	5.10-5.20																				
BH05A	7.80-7.90				7.2	68	0.22	1.7	0.2	1.8	9.1	11	23	0.3	6.4	1	20	190	1	1	1
BH05A	9.50-9.60				14	64	1.1	1.3	0.2	1.8	27	15	14	0.3	23	1	44	58	1	1	1
BH04A	3.00-3.10				19	99	1.1	1.9	0.2	1.8	35	37	57	0.3	43	1	51	250	1	1	1
BH04A	4.20-4.30																				
BH04A	6.50-6.60				16	90	0.97	4.5	0.2	1.8	34	41	70	0.3	37	1	46	160	1	2.2	1
BH01	1.80-1.90				18	40	0.62	0.7	0.2	1.8	19	11	18	0.3	15	1	35	41	1	1	1
BH01	3.80-3.90				9.8	54	0.6	1.5	0.2	1.8	20	15	38	0.3	15	1	29	290	1	1	1

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Location	Sample depth	Benzene	Toluene	Ethyl benzene	Total Xylene	TPH (EC5-6) aliphatic	TPH (>EC6-8) aliphatic	TPH (>EC8-10) aliphatic	TPH (>EC10-12) aliphatic	TPH (>EC12-16) aliphatic	TPH (>EC16-21) aliphatic	TPH (>EC21-35) aliphatic	TPH (>EC6-7) aromatic (benzene)	TPH (>EC7-8) aromatic (toluene)	TPH (>EC8-10) aromatic	TPH (>EC10-12) aromatic	TPH (>EC12-16) aromatic	TPH (>EC16-21) aromatic	TPH (>EC21-35) aromatic
Detection Limit																			
GSAC		1.00E+02	9.50E+04	2.20E+04	2.30E+04	1.30E+05	2.20E+05	1.80E+04	2.30E+04	2.50E+04	4.80E+05	4.80E+05	8.40E+04	9.50E+04	8.50E+03	9.70E+03	1.00E+04	7.70E+03	7.80E+03
DS217	0.20-0.30																		
DS217	1.80-1.90																		
DS217	2.50-2.60																		
DS218A	5.30-5.60																		
DS219	1.20-1.30																		
DS219	1.90-2.00	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	2	8	8	0.001	0.001	0.001	1	2	10	10
DS219A	1.70-1.80																		
DS216	0.20-0.30																		
DS216	2.60-2.70	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	2	8	8	0.001	0.001	0.001	1	2	10	10
DS215	1.70-1.90																		
BH07	0.30																		
BH07	0.85																		
BH07	5.50-6.00	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	4.1	8	31	0.001	0.001	0.001	1	2	10	10
BH07	5.50-6.00																		
BH06	1.90																		
BH06	2.80																		
BH06	5.00-5.50	0.005	0.005	0.005	0.01	0.001	0.001	0.001	4.5	48	79	100	0.001	0.001	0.001	1.7	24	52	51
BH06	6.20-6.30																		
DS212	2.10-2.20	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	2	8	18	0.001	0.001	0.001	1	2	10	10
DS209	1.20-1.40																		
DS209	3.00-3.20	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	8.4	34	64	0.001	0.001	0.001	1	2.5	27	22
DS209	5.00-5.20																		
DS210	1.60																		
DS211	1.70																		
DS213	0.40-0.80																		
DS213	1.80-1.90																		
DS201	0.70-0.80																		
DS201	1.80-1.90																		
DS202	2.15-2.20	0.005	0.005	0.005	0.01	0.001	0.001	0.001	5.4	12	20	230	0.001	0.001	0.001	1	15	200	120
DS203	1.10-1.30																		
DS203	2.20-2.30																		
DS207	0.20-0.30																		
DS207	2.40-2.50																		
DS214	0.70-0.80																		
DS205	0.20-0.30																		
DS205	2.20-2.40																		
DS206	0.80-0.90																		
DS206	1.60-1.70																		
DS206	2.10-2.30																		
DS208	2.40-2.60	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	2	8	39	0.001	0.001	0.001	1	2	10	24
BH09	0.30																		
BH09	3.40-3.50	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	2	8	60	0.001	0.001	0.001	1	2	10	28
BH09	4.10-4.20																		
BH09	5.90-6.00																		
BH09	7.90-8.00																		
BH05	0.30																		
BH05A	0.40																		
BH05A	1.60																		
BH05A	2.60	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	75	140	130	0.001	0.001	0.001	1	20	62	66
BH05A	5.10-5.20																		
BH05A	7.80-7.90																		
BH05A	9.50-9.60																		
BH04A	3.00-3.10	0.005	0.005	0.005	0.01	0.001	0.001	0.001	2.3	15	47	210	0.001	0.001	0.001	1	14	96	170
BH04A	4.20-4.30																		
BH04A	6.50-6.60	0.005	0.005	0.005	0.044	0.001	0.001	0.001	1	2.8	11	50	0.001	0.001	0.081	1	2	10	33
BH01	1.80-1.90	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	2	8.2	64	0.001	0.001	0.001	1	2	10	30
BH01	3.80-3.90	0.005	0.005	0.005	0.01	0.001	0.001	0.001	1	7.6	16	63	0.001	0.001	0.001	1	2	10	18

Location	Sample depth	TPH (>EC35-44) aromatic	Total TPH	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-c,d)pyrene	Dibenzo(a,h)anthracene	Benzo(g,hi)perylene	Benzo(a)pyrene (as surrogate marker)	Tetrachloroethene (PCE)	*Trichloroethene (TCE)*	cis-1,2-Dichloroethene	Vinyl Chloride (VC)	1,1,2,2-Tetrachloroethane (PCA)	1,1,1-Trichloroethane (TCA)	1,2-Dichloroethane
Detection Limit																											
GSAC		7.80E+03	5.00E+02	1.90E+03	3.00E+04	3.00E+04	2.00E+04	6.20E+03	1.50E+05	6.30E+03	1.50E+04	5.60E+01	1.10E+02	1.50E+01	4.10E+02	1.20E+01	1.70E+02	1.30E+00	1.50E+03	4.70E+00	1.10E+03	9.10E+01	0.00E+00	5.00E+00	2.10E+03	7.60E+04	2.40E+01
DS217	0.20-0.30		10	0.58	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS217	1.80-1.90		58	0.62	0.05	0.05	0.06	0.48	0.14	1.2	1.2	0.73	0.54	0.81	0.37	0.65	0.41	0.11	0.43	0.65							
DS217	2.50-2.60		51																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS218A	5.30-5.60		*4100*																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS219	1.20-1.30		10	0.73	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS219	1.90-2.00		10																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS219A	1.70-1.80																										
DS216	0.20-0.30		22	0.27	0.05	0.08	0.09	1.1	0.27	3.5	3.2	1.9	1.6	2.5	0.97	2.2	1.3	0.27	1.4	2.2							
DS216	2.60-2.70		10																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS215	1.70-1.90																										
BH07	0.30		10	0.59	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
BH07	0.85		10	0.55	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
BH07	5.50-6.00		48																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
BH07	5.50-6.00																										
BH06	1.90		10	1	0.05	0.05	0.05	0.05	0.05	0.08	0.09	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
BH06	2.80		10																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
BH06	5.00-5.50																										
BH06	6.20-6.30																										
DS212	2.10-2.20																				0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS209	1.20-1.40		26																								
DS209	3.00-3.20		160																								
DS209	5.00-5.20		10	0.05	0.05	0.05	0.05	0.13	0.05	0.25	0.22	0.09	0.09	0.09	0.05	0.07	0.05	0.05	0.05	0.07							
DS210	1.60		10	0.05	0.05	0.05	0.05	0.1	0.05	0.31	0.3	0.18	0.17	0.21	0.08	0.14	0.05	0.05	0.05	0.14							
DS211	1.70																				0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS213	0.40-0.80		10																								
DS213	1.80-1.90		*670*																								
DS201	0.70-0.80		10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS201	1.80-1.90																										
DS202	2.15-2.20		*690*	0.26	0.05	0.05	0.05	0.47	0.09	0.45	0.4	0.16	0.16	0.18	0.06	0.14	0.05	0.05	0.05	0.14	0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
DS203	1.10-1.30		10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS203	2.20-2.30		37	0.05	0.05	0.05	0.05	0.35	0.07	0.52	0.5	0.25	0.19	0.27	0.14	0.21	0.15	0.05	0.16	0.21							
DS207	0.20-0.30		10	0.05	0.05	0.05	0.05	0.05	0.05	0.14	0.15	0.12	0.07	0.14	0.07	0.11	0.05	0.05	0.05	0.11							
DS207	2.40-2.50																										
DS214	0.70-0.80																										
DS205	0.20-0.30		10	0.46	0.05	0.05	0.05	0.13	0.05	0.24	0.27	0.1	0.14	0.15	0.06	0.09	0.05	0.05	0.05	0.09							
DS205	2.20-2.40		*700*	0.46	0.05	0.05	0.05	0.1	0.05	0.14	0.21	0.11	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS206	0.80-0.90		10	0.55	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS206	1.60-1.70		10	0.52	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS206	2.10-2.30		180	0.49	0.05	0.05	0.05	0.09	0.05	0.12	0.12	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
DS208	2.40-2.60																										
BH09	0.30		10	0.44	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
BH09	3.40-3.50		110																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
BH09	4.10-4.20		37																								
BH09	5.90-6.00		300																								
BH09	7.90-8.00		*580*																								
BH05	0.30																										
BH05A	0.40																										
BH05A	1.60																										
BH05A	2.60		*550*	0.37	0.05	0.05	0.11	0.54	0.17	0.77	0.76	0.37	0.44	0.5	0.16	0.34	0.2	0.05	0.24	0.34	0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
BH05A	5.10-5.20																										
BH05A	7.80-7.90		240	0.44	0.05	0.52	0.49	4.8	1.4	12	10	4.3	3.6	5.1	1.3	4.3	2.1	0.46	2.5	4.3							
BH05A	9.50-9.60		10	0.41	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
BH04A	3.00-3.10		*670*	0.67	0.16	1.9	2.3	15	6.9	23	19	10	7.7	10	2.7	8.1	3.8	1	3.9	*8.7*							
BH04A	4.20-4.30																										
BH04A	6.50-6.60		120	0.71	0.05	0.09	0.06	0.32	0.09	0.61	0.58	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05							
BH01	1.80-1.90		150																		0.005	0.005	*0.005*	0.005	0.005	0.005	0.005
BH01	3.80-3.90		130	0.59	0.05	0.05	0.11	0.51	0.08	0.95	0.78	0.39	0.43				0.2	0.05	0.21								

Location	Sample depth	Carbon Tetrachloride
Detection Limit		
GSAC		2.70E+02
DS217	0.20-0.30	
DS217	1.80-1.90	
DS217	2.50-2.60	
DS218A	5.30-5.60	
DS219	1.20-1.30	
DS219	1.90-2.00	
DS219A	1.70-1.80	
DS216	0.20-0.30	
DS216	2.60-2.70	
DS215	1.70-1.90	
BH07	0.30	
BH07	0.85	
BH07	5.50-6.00	
BH07	5.50-6.00	
BH06	1.90	
BH06	2.80	
BH06	5.00-5.50	
BH06	6.20-6.30	
DS212	2.10-2.20	
DS209	1.20-1.40	
DS209	3.00-3.20	
DS209	5.00-5.20	
DS210	1.60	
DS211	1.70	
DS213	0.40-0.80	
DS213	1.80-1.90	
DS201	0.70-0.80	
DS201	1.80-1.90	
DS202	2.15-2.20	
DS203	1.10-1.30	
DS203	2.20-2.30	
DS207	0.20-0.30	
DS207	2.40-2.50	
DS214	0.70-0.80	
DS205	0.20-0.30	
DS205	2.20-2.40	
DS206	0.80-0.90	
DS206	1.60-1.70	
DS206	2.10-2.30	
DS208	2.40-2.60	
BH09	0.30	
BH09	3.40-3.50	
BH09	4.10-4.20	
BH09	5.90-6.00	
BH09	7.90-8.00	
BH05	0.30	
BH05A	0.40	
BH05A	1.60	
BH05A	2.60	
BH05A	5.10-5.20	
BH05A	7.80-7.90	
BH05A	9.50-9.60	
BH04A	3.00-3.10	
BH04A	4.20-4.30	
BH04A	6.50-6.60	
BH01	1.80-1.90	
BH01	3.80-3.90	

Determinand	Number of tests	Range (mg/kg)	S4UL Public open space (pc	Detection Limit (mg/kg)	Min	Max	No. of Exceedances	No. Non detects	< or not
Arsenic	47	<6.1 to 32	1.70E+02	0	6.1	32	0	153	<
Barium	47	<7.9 to 160	1.35E+03	0	7.9	160	0	153	<
Beryllium	47	<0.22 to 1.6	6.30E+01	0	0.22	1.6	0	153	<
Boron	47	<0.2 to 25	4.60E+04	0	0.2	25	0	153	<
Cadmium	47	<0.2 to 0.8	5.32E+02	0	0.2	0.8	0	153	<
Chromium VI	47	<1.8 to 1.8	2.20E+02	0	1.8	1.8	0	153	<
Chromium III	47	<7.5 to 56	3.30E+04	0	7.5	56	0	153	<
Copper	47	<4.8 to 200	4.40E+04	0	4.8	200	0	153	<
Lead*	47	<4.6 to 170	1.30E+03	0	4.6	170	0	153	<
Inorganic Mercury	47	<0.3 to 0.3	2.40E+02	0	0.3	0.3	0	153	<
Nickel	47	<6.4 to 43	3.40E+03	0	6.4	43	0	153	<
Selenium	47	<1 to 1	1.80E+03	0	1	1	0	153	<
Vanadium	47	<14 to 90	5.00E+03	0	14	90	0	153	<
Zinc	47	<10 to 360	1.70E+05	0	10	360	0	153	<
Cyanide (Free)	47	<1 to 1	4.30E+01	0	1	1	0	153	<
Cyanide (Complex)	47	<1 to 5.9	2.13E+02	0	1	5.9	0	153	<
Phenols (Total)	47	<1 to 8.1	6.90E+02	0	1	8.1	0	153	<
Benzene	15	<0.005 to 0.005	1.00E+02	0	0.005	0.005	0	185	<
Toluene	15	<0.005 to 0.005	9.50E+04	0	0.005	0.005	0	185	<
Ethyl benzene	15	<0.005 to 0.048	2.20E+04	0	0.005	0.048	0	185	<
Total Xylene	15	<0.01 to 0.212	2.30E+04	0	0.01	0.212	0	185	<
TPH (EC5-6) aliphatic	15	<0.001 to 0.001	1.30E+05	0	0.001	0.001	0	185	<
TPH (>EC6-8) aliphatic	15	<0.001 to 0.001	2.20E+05	0	0.001	0.001	0	185	<
TPH (>EC8-10) aliphatic	15	<0.001 to 0.001	1.80E+04	0	0.001	0.001	0	185	<
TPH (>EC10-12) aliphatic	15	<1 to 5.4	2.30E+04	0	1	5.4	0	185	<
TPH (>EC12-16) aliphatic	15	<2 to 75	2.50E+04	0	2	75	0	185	<
TPH (>EC16-21) aliphatic	15	<8 to 140	4.80E+05	0	8	140	0	185	<
TPH (>EC21-35) aliphatic	15	<8 to 230	4.80E+05	0	8	230	0	185	<
TPH (>EC35-44) aliphatic	0	<0 to 0	4.80E+05	0	0	0	0	197	<
TPH (>EC6-7) aromatic (benzene)	15	<0.001 to 0.001	8.40E+04	0	0.001	0.001	0	185	<
TPH (>EC7-8) aromatic (toluene)	15	<0.001 to 0.001	9.50E+04	0	0.001	0.001	0	185	<
TPH (>EC8-10) aromatic	15	<0.001 to 0.76	8.50E+03	0	0.001	0.76	0	185	<
TPH (>EC10-12) aromatic	15	<1 to 1.7	9.70E+03	0	1	1.7	0	185	<
TPH (>EC12-16) aromatic	15	<2 to 24	1.00E+04	0	2	24	0	185	<
TPH (>EC16-21) aromatic	15	<10 to 200	7.70E+03	0	10	200	0	185	<
TPH (>EC21-35) aromatic	15	<10 to 170	7.80E+03	0	10	170	0	185	<
TPH (>EC35-44) aromatic	0	<0 to 0	7.80E+03	0	0	0	0	200	<
Total TPH	47	<10 to 4100	5.00E+02	0	10	4100	8	153	<
Naphthalene	30	<0.05 to 3.3	1.90E+03	0	0.05	3.3	0	170	<
Acenaphthylene	30	<0.05 to 0.16	3.00E+04	0	0.05	0.16	0	170	<
Acenaphthene	30	<0.05 to 1.9	3.00E+04	0	0.05	1.9	0	170	<
Fluorene	30	<0.05 to 2.3	2.00E+04	0	0.05	2.3	0	170	<
Phenanthrene	30	<0.05 to 15	6.20E+03	0	0.05	15	0	170	<
Anthracene	30	<0.05 to 6.9	1.50E+05	0	0.05	6.9	0	170	<
Fluoranthene	30	<0.05 to 23	6.30E+03	0	0.05	23	0	170	<
Pyrene	30	<0.05 to 19	1.50E+04	0	0.05	19	0	170	<
Benzo(a)anthracene	30	<0.05 to 10	5.60E+01	0	0.05	10	0	170	<
Chrysene	30	<0.05 to 7.7	1.10E+02	0	0.05	7.7	0	170	<
Benzo(b)fluoranthene	28	<0.05 to 10	1.50E+01	0	0.05	10	0	172	<
Benzo(k)fluoranthene	28	<0.05 to 2.7	4.10E+02	0	0.05	2.7	0	172	<
Benzo(a)pyrene	29	<0.05 to 8.1	1.20E+01	0	0.05	8.1	0	171	<
Indeno(1,2,3-c,d)pyrene	30	<0.05 to 3.8	1.70E+02	0	0.05	3.8	0	170	<
Dibenzo(a,h)anthracene	30	<0.05 to 1	1.30E+00	0	0.05	1	0	170	<
Benzo(g,hi)perylene	30	<0.05 to 3.9	1.50E+03	0	0.05	3.9	0	170	<
Coal Tar (B(a)P as surrogate mark	29	<0.05 to 8.1	4.70E+00	0	0.05	8.1	1	171	<
Tetrachloroethene (PCE)	14	<0.005 to 0.19	1.10E+03	0	0.005	0.19	0	186	<
Trichloroethene (TCE)	14	<0.005 to 0.005	9.10E+01	0	0.005	0.005	0	186	<
cis-1,2-Dichloroethene	14	<0.005 to 0.005	0.00E+00	0	0.005	0.005	14	186	<
Vinyl Chloride (VC)	14	<0.005 to 0.005	5.00E+00	0	0.005	0.005	0	186	<
1,1,2,2-Tetrachloroethane (PCA)	14	<0.005 to 0.005	2.10E+03	0	0.005	0.005	0	186	<

*EQS Standard: Phenol and Benzene annual average of 300µg/l; Toluene 500µg/l for Freshwater, 400µg/l for Saltwater; 1,1,1-TCA 1,000µg/l.

Project Name:	Oxfordshire RFI
Project Number:	NTH2479
Assessment for:	Soil Leachate Assessment
Laboratory:	i2
Receptor:	Drinking Water
Receptor Water Hardness:	>200

BWB A CAF GROUP COMPANY

100 = Assessment Criteria Exceedance)

50 = M-BAT Bioavailability Assessment Required

	Contaminant	Units	Detection Limit	Guideline Concentration	Source	Number of Samples	Min	Max	No of Exceedences	DS217	DS219	DS216	BH07	BH07	BH06	DS209	DS201	DS203	DS206	BH05A	BH04A	BH01	BH08	BH02
										1.801.90	1.201.30	0.200.30	0.30	5.506.00	2.80	5.005.20	0.700.80	2.202.30	2.102.30	7.807.90	6.506.60	3.803.90	4.404.50	3.403.50
Heavy Metals	Arsenic	µg/l	1	10	UK DWS	15	0.00	18.00	1	3.90	< 1.0	< 1.0	1.00	10.00	2.80	5.60	< 1.0	8.70	3.80	5.00	18.00	1.70	7.10	6.40
	Barium	mg/l	0.05	1000	UK DWS	15	1.80	90.00	0	87.00	23.00	10.00	11.00	16.00	68.00	90.00	15.00	37.00	75.00	23.00	1.80	59.00	20.00	20.00
	Beryllium	µg/l	0.2	None Available		15	0.00	0.00	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Cadmium	µg/l	0.08	3	UK DWS	15	0.00	0.00	0	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
	Chromium III	µg/l	0.4	4.7	UK DWS	15	0.00	3.00	0	0.60	< 0.4	1.80	1.70	3.00	< 0.4	1.80	0.40	0.80	0.80	1.00	1.30	1.00	2.40	< 0.4
	Chromium VI	µg/l		3.4	EQS Freshwater	15	0.00	0.00	0															
	Copper	µg/l	0.7	2000	UK DWS	15	0.00	37.00	0	9.00	9.40	6.90	17.00	24.00	7.20	18.00	4.60	10.00	11.00	9.00	35.00	12.00	37.00	21.00
	Lead	µg/l	1	10	UK DWS	15	0.00	8.70	0	< 1.0	< 1.0	1.10	2.30	1.90	< 1.0	< 1.0	< 1.0	2.50	< 1.0	3.80	3.80	< 1.0	8.70	< 1.0
	Mercury	µg/l	0.5	1	UK DWS	15	0.00	0.00	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Nickel	µg/l	0.3	20	UK DWS	15	1.20	80.00	3	3.00	6.00	1.30	2.00	9.20	5.90	25.00	1.20	5.80	4.60	7.50	34.00	3.80	16.00	80.00
	Selenium	µg/l	4	10	UK DWS	15	0.00	0.00	0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	Vanadium	µg/l	1.7	None Available		15	0.00	4.10	0	< 1.7	< 1.7	< 1.7	< 1.7	4.10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	2.80	< 1.7	1.80	< 1.7	< 1.7
	Zinc	µg/l	0.4	5000	UK DWS	15	6.60	40.00	0	13.00	14.00	6.60	13.00	22.00	17.00	29.00	18.00	13.00	16.00	21.00	25.00	33.00	40.00	25.00
	Sulphate	mg/l	0.1	250	UK DWS	15	1.80	615.00	6	274.00	588.00	3.90	1.80	9.50	615.00	602.00	191.00	516.00	413.00	71.50	120.00	85.90	49.20	53.00
	Boron	µg/l	10	300	UK DWS	15	0.00	540.00	4	270.00	< 10	18.00	< 10	350.00	100.00	540.00	< 10	59.00	81.00	350.00	400.00	64.00	270.00	270.00
	pH					0	0.00	0.00	0															
ics	Cyanide (total)	µg/l	10	70	UK DWS	15	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

*EQS Standard: Phenol and Benzene annual average of 300µg/l; Toluene 500µg/l for Freshwater, 400µg/l for Saltwater; 1,1,1-TCA 1,000µg/l.

Project Name:	Oxfordshire RFI
Project Number:	NTH2479
Assessment for:	Soil Leachate Assessment
Laboratory:	i2
Receptor:	Freshwater
Receptor Water Hardness:	>200

BWB A CAF GROUP COMPANY

100 = Assessment Criteria Exceedance)

50 = M-BAT Bioavailability Assessment Required

	Contaminant	Units	Detection Limit	Guideline Concentration	Source	Number of Samples	Min	Max	No of Exceedences	DS217	DS219	DS216	BH07	BH07	BH06	DS209	DS201	DS203	DS206	BH05A	BH04A	BH01	BH08	BH02
										1.801.90	1.201.30	0.200.30	0.30	5.506.00	2.80	5.005.20	0.700.80	2.202.30	2.102.30	7.807.90	6.506.60	3.803.90	4.404.50	3.403.50
Heavy Metals	Arsenic	µg/l	1	50	EQS Freshwater	15	1.00	18.00	0	3.90	< 1.0	< 1.0	1.00	10.00	2.80	5.60	< 1.0	8.70	3.80	5.00	18.00	1.70	7.10	6.40
	Barium	mg/l	0.05	1000	UK DWS	15	1.80	90.00	0	87.00	23.00	10.00	11.00	16.00	68.00	90.00	15.00	37.00	75.00	23.00	1.80	59.00	20.00	20.00
	Beryllium	µg/l	0.2	None Available		15	0.00	0.00	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
	Cadmium	µg/l	0.08	0.25	EQS Freshwater	15	0.00	0.00	0	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
	Chromium III	µg/l	0.4	4.7	EQS Freshwater	15	0.00	3.00	0	0.60	< 0.4	1.80	1.70	3.00	< 0.4	1.80	0.40	0.80	0.80	1.00	1.30	1.00	2.40	< 0.4
	Chromium VI	µg/l		3.4	EQS Freshwater	15	0.00	0.00	0															
	Copper	µg/l	0.7	1	EQS Freshwater	15	0.00	37.00	**15**	**9.00**	**9.40**	**6.90**	**17.00**	**24.00**	**7.20**	**18.00**	**4.60**	**10.00**	**11.00**	**9.00**	**35.00**	**12.00**	**37.00**	**21.00**
	Lead	µg/l	1	1.2	EQS Freshwater	15	0.00	8.70	6	< 1.0	< 1.0	1.10	**2.30**	**1.90**	< 1.0	< 1.0	< 1.0	**2.50**	< 1.0	**3.80**	**3.80**	< 1.0	**8.70**	< 1.0
	Mercury	µg/l	0.5	0.07	EQS Freshwater	15	0.00	0.00	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	Nickel	µg/l	0.3	4	EQS Freshwater	15	1.20	80.00	**10**	3.00	**6.00**	1.30	2.00	**9.20**	**5.90**	**25.00**	1.20	**5.80**	**4.60**	**7.50**	**34.00**	3.80	**16.00**	**80.00**
	Selenium	µg/l	4	10	UK DWS	15	0.00	0.00	0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
	Vanadium	µg/l	1.7	None Available		15	0.00	4.10	0	< 1.7	< 1.7	< 1.7	< 1.7	4.10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	2.80	< 1.7	1.80	< 1.7	< 1.7
	Zinc	µg/l	0.4	10.9	EQS Freshwater	15	6.60	40.00	**14**	**13.00**	**14.00**	6.60	**13.00**	**22.00**	**17.00**	**29.00**	**18.00**	**13.00**	**16.00**	**21.00**	**25.00**	**33.00**	**40.00**	**25.00**
	Sulphate	mg/l	0.1	400	EQS Freshwater	15	1.80	615.00	5	274.00	**588.00**	3.90	1.80	9.50	**615.00**	**602.00**	191.00	**516.00**	**413.00**	71.50	120.00	85.90	49.20	53.00
	Boron	µg/l	10	2000	EQS Freshwater	12	18.00	540.00	0	270.00	< 10	18.00	< 10	350.00	100.00	540.00	< 10	59.00	81.00	350.00	400.00	64.00	270.00	270.00
	pH					0	0.00	0.00	0															
ics	Cyanide (total)	µg/l	10	1	EQS Freshwater	15	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

Appendix 9 : Water Results Summary and Assessment Sheets

*EQS Standard: Phenol and Benzene annual average of 300µg/l; Toluene 500µg/l for Freshwater, 400µg/l for Saltwater; 1,1,1-TCA

Project Name:	Oxfordshire RFI
Project Number:	NTH2479
Assessment for:	Water Assessment
Laboratory:	I2
Receptor:	Drinking Water
Receptor Water Hardness:	>200

BWB A CAF GROUP COMPANY

100 = Assessment Criteria Exceedance

50 = M-BAT Bioavailability Assessment Required

	Contaminant	Units	Detection Limit	Guideline Concentration	Source	Number of Samples	Min	Max	No of Exceedences	BH01	BH02	BH03	BH04A	BH05A	BH06	BH07	BH08	BH09
Heavy Metals	Arsenic	µg/l	0.15	10	UK DWS	9	0.91	3.48	0	3.41	1.56	1.61	1.70	1.00	3.48	0.91	1.20	1.32
	Barium	mg/l	0.06	1000	UK DWS	9	68.00	250.00	0	100.00	110.00	68.00	150.00	160.00	250.00	68.00	100.00	180.00
	Beryllium	µg/l	0.1	None Available		9	0.00	0.00	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Cadmium	µg/l	0.02	3	UK DWS	9	0.00	0.00	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	Chromium III	µg/l	0.2	4.7	UK DWS	9	0.00	4.90	1	< 0.2	0.30	0.50	0.70	0.40	4.90	< 0.2	< 0.2	0.60
	Chromium VI	µg/l	5	3.4	EQS Freshwater	9	0.00	0.00	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Copper	µg/l	0.5	2000	UK DWS	9	0.00	3.50	0	0.90	1.40	< 0.5	1.00	< 0.5	1.70	1.40	2.80	3.50
	Lead	µg/l	0.2	10	UK DWS	9	0.00	0.80	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.80
	Mercury	µg/l	0.05	1	UK DWS	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Nickel	µg/l	0.5	20	UK DWS	9	1.60	32.00	2	9.00	5.90	3.00	28.00	1.60	32.00	4.40	15.00	19.00
	Selenium	µg/l	0.6	10	UK DWS	9	0.00	5.00	0	1.00	< 0.6	0.80	< 0.6	< 0.6	5.00	< 0.6	0.70	0.90
	Vanadium	µg/l	0.2	None Available		9	0.00	2.50	0	0.40	< 0.2	< 0.2	< 0.2	< 0.2	2.50	< 0.2	0.60	0.40
	Zinc	µg/l	0.5	5000	UK DWS	9	2.60	10.00	0	9.90	5.20	2.60	3.80	3.00	9.50	7.50	10.00	9.90
	Sulphate	mg/l	0.045	250	UK DWS	9	5.04	479.00	1	479.00	139.00	24.00	39.10	12.70	15.60	5.04	31.80	17.80
	Boron	µg/l	10	300	UK DWS	9	93.00	340.00	3	160.00	270.00	170.00	230.00	210.00	93.00	330.00	340.00	320.00
	pH					9	0.00	0.00	0									
Inorganics	Cyanide (total)	µg/l	10	70	UK DWS	9	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Phenol*	µg/l	10	0.5	UK DWS	9	0.00	20.00	1	< 10	< 10	< 10	< 10	< 10	20.00	< 10	< 10	< 10
	Ammonia (NH3 as N)	mg/l		0.015	EQS Freshwater	9	0.00	340.00	9	26.00	42.00	110.00	25.00	52.00	340.00	130.00	140.00	140.00
BTEX	Benzene*	µg/l	1	1	UK DWS	9	0.00	2.90	3	< 1.0	< 1.0	< 1.0	1.50	< 1.0	< 1.0	2.50	2.90	< 1.0
	Ethylbenzene	µg/l	1	300	UK DWS	9	0.00	8.70	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.70
	Toluene*	µg/l	1	700	EQS Freshwater	9	0.00	5.60	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.60
	Xylene	µg/l		500	UK DWS	0	0.00	0.00	0									
Total Petroleum Hydrocarbons	Aliphatic C5-C6	µg/l	1	10	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aliphatic C6-C8	µg/l	1	10	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aliphatic C8-C10	µg/l	1	10	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aliphatic C10-C12	µg/l	10	10	UK DWS	9	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Aliphatic C12-C16	µg/l	10	10	UK DWS	9	0.00	70.00	1	< 10	70.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Aliphatic C16-C21	µg/l	10	10	UK DWS	9	0.00	30.00	1	< 10	30.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Aliphatic C21-C35	µg/l	10	10	UK DWS	9	0.00	130.00	2	< 10	< 10	< 10	< 10	< 10	130.00	< 10	120.00	< 10
	Aromatic EC5-EC7	µg/l	1	10	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aromatic EC7-EC8	µg/l	1	700	UK DWS	9	0.00	5.50	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.50
	Aromatic EC8-EC10	µg/l	1	10	UK DWS	9	0.00	33.00	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	33.00
	Aromatic EC10-EC12	µg/l	10	10	UK DWS	9	18.00	80.00	9	20.00	40.00	40.00	80.00	26.00	42.00	18.00	25.00	33.00
	Aromatic EC12-EC16	µg/l	10	10	UK DWS	9	12.00	60.00	9	20.00	30.00	50.00	60.00	12.00	55.00	34.00	23.00	19.00
	Aromatic EC16-EC21	µg/l		10	UK DWS	0	0.00	0.00	0									
	Aromatic EC21-EC35	µg/l	10	10	UK DWS	9	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Total TPH (EC5-EC35)	µg/l		0.1	UK DWS	0	0.00	0.00	0									
Polycyclic Aromatic Hydrocarbons	Acenaphthene	µg/l	0.01	None Available		9	0.00	0.88	0	0.36	0.46	0.30	0.25	0.85	0.88	0.38	0.33	< 0.01
	Acenaphthylene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Anthracene	µg/l	0.01	0.1	EQS Freshwater	9	0.00	0.21	1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.21	< 0.01	< 0.01	< 0.01
	Benzo(a)anthracene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(a)pyrene	µg/l	0.01	0.7	UK DWS	9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(b)fluoranthene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(k)fluoranthene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(g,h,i)perylene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Chrysene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Dibenzo(a,h)anthracene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Fluoranthene	µg/l	0.01	0.0063	EQS Freshwater	9	0.00	0.54	1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.54	< 0.01	< 0.01	< 0.01
	Fluorene	µg/l	0.01	None Available		9	0.00	0.41	0	0.17	0.23	0.35	< 0.01	0.33	0.41	< 0.01	< 0.01	< 0.01
	Indeno(1,2,3-c,d)pyrene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Naphthalene	µg/l	0.01	2	EQS Freshwater	9	1.93	13.90	8	3.71	3.28	4.29	1.93	3.95	13.90	3.66	6.34	6.77
	Phenanthrene	µg/l	0.01	None Available		9	0.00	0.89	0	0.23	0.18	0.46	< 0.01	0.26	0.89	< 0.01	< 0.01	< 0.01
	Pyrene	µg/l	0.01	None Available		9	0.00	0.43	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.43	< 0.01	< 0.01	< 0.01
	Total PAH	µg/l	0.16	0.1	WHO (Health)	9	2.18	17.30	9	4.47	4.15	5.40	2.18	5.39	17.30	4.04	6.67	6.77
VOCs	Tetrachloroethane (P	µg/l	1	140	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane	µg/l	1	100	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2-Trichloroethane	µg/l	1	400	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene (	µg/l	1	30	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichlorobenzenes	µg/l		20	UK DWS	0	0.00	0.00	0									
	1,2-dibromo-3-chloro	µg/l	1	1	UK DWS	9	0.00	0.00	0	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-dichlorobenzene	µg/l	1	1000	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane (	µg/l	1	30	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-dichloropropane	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropene	µg/l		20	UK DWS	0	0.00	0.00	0									
	1,4-dichlorobenzene	µg/l	1	300	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	µg/l	1	10	EQS Freshwater	9	0.00	2.90	0	< 1.0	< 1.0	< 1.0	1.50	< 1.0	< 1.0	2.50	2.90	< 1.0
	Carbon tetrachloride	µg/l		12	EQS Freshwater	0	0.00	0.00	0									
	Chloroform	µg/l		200	UK DWS	0	0.00	0.00	0									
	cis-1,2-dichloroethyle	µg/l	1	50	UK DWS	9	0.00	3.60	0	< 1.0	< 1.0	< 1.0	3.60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,3-dichloroprope	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Ethylbenzene	µg/l	1	300	UK DWS	9	0.00	8.70	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.70
	Hexachlorobutadien	µg/l	1	0.6	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0*
	Xylene	µg/l		500	UK DWS	0	0.00	0.00	0									
	Styrene	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloroethene (P	µg/l	1	40	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Toluene	µg/l	1	700	UK DWS	9	0.00	5.60	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.60
	Trans-1,2-dichloroeth	µg/l	1	50	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trans-1,3-dichloropro	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloroethene (TCE)	µg/l	1	70	UK DWS	9	0.00	4.30	0	< 1.0	< 1.0	< 1.0	4.30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl Chloride	µg/l	1	5	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	µg/l	1	20	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trichlorobenzen	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0*
SVOCs	2,4,6-Trichlorophenol	µg/l	0.05	200	UK DWS	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	2,4-Dichlorophenol	µg/l	0.05	4.2	EQS Freshwater	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Hexachlorobenzene	µg/l	0.05	1	UK DWS	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Pentachlorophenol	µg/l		9	UK DWS	0	0.00	0.00	0									
	Phenol	µg/l	0.05	0.5	UK DWS	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

*EQS Standard: Phenol and Benzene annual average of 300µg/l; Toluene 500µg/l for Freshwater, 400µg/l for Saltwater; 1,1,1-TCA 1,000µg/l.

Project Name:	Oxfordshire RFI
Project Number:	NTH2479
Assessment for:	Water Assessment
Laboratory:	T2
Receptor:	Freshwater
Receptor Water Hardness:	>200

BWB A CAF GROUP COMPANY

100 = Assessment Criteria Exceedance)

50 = M-BAT Bioavailability Assessment Required

	Contaminant	Units	Detection Limit	Guideline Concentration	Source	Number of Samples	Min	Max	No of Exceedences	BH01	BH02	BH03	BH04A	BH05A	BH06	BH07	BH08	BH09
Heavy Metals	Arsenic	µg/l	0.15	50	EQS Freshwater	9	0.91	3.48	0	3.41	1.56	1.61	1.70	1.00	3.48	0.91	1.20	1.32
	Barium	mg/l	0.06	1000	UK DWS	9	68.00	250.00	0	100.00	110.00	68.00	150.00	160.00	250.00	68.00	100.00	180.00
	Beryllium	µg/l	0.1	None Available		9	0.00	0.00	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	Cadmium	µg/l	0.02	0.25	EQS Freshwater	9	0.00	0.00	0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	Chromium III	µg/l	0.2	4.7	EQS Freshwater	9	0.00	4.90	1	< 0.2	0.30	0.50	0.70	0.40	**4.90**	< 0.2	< 0.2	0.60
	Chromium VI	µg/l	5	3.4	EQS Freshwater	9	0.00	0.00	0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Copper	µg/l	0.5	1	EQS Freshwater	9	0.00	3.50	**5**	0.90	**1.40**	< 0.5	1.00	< 0.5	**1.70**	**1.40**	**2.80**	**3.50**
	Lead	µg/l	0.2	1.2	EQS Freshwater	9	0.00	0.80	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.80
	Mercury	µg/l	0.05	0.07	EQS Freshwater	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Nickel	µg/l	0.5	4	EQS Freshwater	9	1.60	32.00	**7**	**9.00**	**5.90**	3.00	**28.00**	1.60	**32.00**	**4.40**	**15.00**	**19.00**
	Selenium	µg/l	0.6	10	UK DWS	9	0.00	5.00	0	1.00	< 0.6	0.80	< 0.6	< 0.6	5.00	< 0.6	0.70	0.90
	Vanadium	µg/l	0.2	None Available		9	0.00	2.50	0	0.40	< 0.2	< 0.2	< 0.2	< 0.2	2.50	< 0.2	0.60	0.40
	Zinc	µg/l	0.5	10.9	EQS Freshwater	9	2.60	10.00	0	9.90	5.20	2.60	3.80	3.00	9.50	7.50	10.00	9.90
	Sulphate	mg/l	0.045	400	EQS Freshwater	9	5.04	479.00	1	**479.00**	139.00	24.00	39.10	12.70	15.60	5.04	31.80	17.80
	Boron	µg/l	10	2000	EQS Freshwater	9	93.00	340.00	0	160.00	270.00	170.00	230.00	210.00	93.00	330.00	340.00	320.00
	pH					9	0.00	0.00	0									
Inorganics	Cyanide (total)	µg/l	10	1	EQS Freshwater	9	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Phenol*	µg/l	10	7.7	EQS Freshwater	9	0.00	20.00	1	< 10	< 10	< 10	< 10	< 10	**20.00**	< 10	< 10	< 10
	Ammonia (NH3 as N)	mg/l		0.015	EQS Freshwater	9	0.00	340.00	9	**26.00**	**42.00**	**110.00**	**25.00**	**52.00**	**340.00**	**130.00**	**140.00**	**140.00**
BTEX	Benzene*	µg/l	1	10	EQS Freshwater	9	0.00	2.90	0	< 1.0	< 1.0	< 1.0	1.50	< 1.0	< 1.0	2.50	2.90	< 1.0
	Ethylbenzene	µg/l	1	300	UK DWS	9	0.00	8.70	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.70
	Toluene*	µg/l	1	74	EQS Freshwater	9	0.00	5.60	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.60
	Xylene	µg/l		30	EQS Freshwater	0	0.00	0.00	0									
Total Petroleum Hydrocarbons	Aliphatic C5-C6	µg/l	1	10	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aliphatic C6-C8	µg/l	1	10	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aliphatic C8-C10	µg/l	1	10	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aliphatic C10-C12	µg/l	10	10	UK DWS	9	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Aliphatic C12-C16	µg/l	10	10	UK DWS	9	0.00	70.00	1	< 10	**70.00**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Aliphatic C16-C21	µg/l	10	10	UK DWS	9	0.00	30.00	1	< 10	**30.00**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Aliphatic C21-C35	µg/l	10	10	UK DWS	9	0.00	130.00	2	< 10	< 10	< 10	< 10	< 10	**130.00**	< 10	**120.00**	< 10
	Aromatic EC5-EC7	µg/l	1	10	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Aromatic EC7-EC8	µg/l	1	74	EQS Freshwater	9	0.00	5.50	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.50
	Aromatic EC8-EC10	µg/l	1	10	UK DWS	9	0.00	33.00	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**33.00**
	Aromatic EC10-EC12	µg/l	10	10	UK DWS	9	18.00	80.00	9	**20.00**	**40.00**	**40.00**	**80.00**	**26.00**	**42.00**	**18.00**	**25.00**	**33.00**
	Aromatic EC12-EC16	µg/l	10	10	UK DWS	9	12.00	60.00	9	**20.00**	**30.00**	**50.00**	**60.00**	**12.00**	**55.00**	**34.00**	**23.00**	**19.00**
	Aromatic EC16-EC21	µg/l		10	UK DWS	0	0.00	0.00	0									
	Aromatic EC21-EC35	µg/l	10	10	UK DWS	9	0.00	0.00	0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	Total TPH (EC5-EC35)	µg/l		10	EQS Freshwater	0	0.00	0.00	0									
Polycyclic Aromatic Hydrocarbons	Acenaphthene	µg/l	0.01	None Available		9	0.00	0.88	0	0.36	0.46	0.30	0.25	0.85	0.88	0.38	0.33	< 0.01
	Acenaphthylene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Anthracene	µg/l	0.01	0.1	EQS Freshwater	9	0.00	0.21	1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.21**	< 0.01	< 0.01	< 0.01
	Benzo(a)anthracene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(a)pyrene	µg/l	0.01	0.00017	EQS Freshwater	9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(b)fluoranthene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(k)fluoranthene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Benzo(g,h,i)perylene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Chrysene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Dibenzo(a,h)anthracene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Fluoranthene	µg/l	0.01	0.0063	EQS Freshwater	9	0.00	0.54	1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.54**	< 0.01	< 0.01	< 0.01
	Fluorene	µg/l	0.01	None Available		9	0.00	0.41	0	0.17	0.23	0.35	< 0.01	0.33	0.41	< 0.01	< 0.01	< 0.01
	Indeno(1,2,3-c,d)pyrene	µg/l	0.01	None Available		9	0.00	0.00	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Naphthalene	µg/l	0.01	2	EQS Freshwater	9	1.93	13.90	8	**3.71**	**3.28**	**4.29**	1.93	**3.95**	**13.90**	**3.66**	**6.34**	**6.77**
	Phenanthrene	µg/l	0.01	None Available		9	0.00	0.89	0	0.23	0.18	0.46	< 0.01	0.26	0.89	< 0.01	< 0.01	< 0.01
	Pyrene	µg/l	0.01	None Available		9	0.00	0.43	0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.43	< 0.01	< 0.01	< 0.01
	Total PAH	µg/l	0.16	0.1	WHO (Health)	9	2.18	17.30	9	**4.47**	**4.15**	**5.40**	**2.18**	**5.39**	**17.30**	**4.04**	**6.67**	**6.77**
VOCs	Tetrachloroethane (PCA)	µg/l	1	140	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,1-Trichloroethane (1,1,1-TC	µg/l	1	100	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2-Trichloroethane (1,1,2-TC	µg/l	1	400	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene (1,1-DCE)	µg/l	1	30	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichlorobenzenes	µg/l		0.4	EQS Freshwater	0	0.00	0.00	0									
	1,2-dibromo-3-chloropropane	µg/l	1	1	UK DWS	9	0.00	0.00	0	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-dichlorobenzene	µg/l	1	1000	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane (1,2-DCA)	µg/l	1	10	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-dichloropropane	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropene	µg/l		20	UK DWS	0	0.00	0.00	0									
	1,4-dichlorobenzene	µg/l	1	300	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Benzene	µg/l	1	10	EQS Freshwater	9	0.00	2.90	0	< 1.0	< 1.0	< 1.0	1.50	< 1.0	< 1.0	2.50	2.90	< 1.0
	Carbon tetrachloride	µg/l		12	EQS Freshwater	0	0.00	0.00	0									
	Chloroform	µg/l		12	EQS Freshwater	0	0.00	0.00	0									
	cis-1,2-dichloroethylene (Cis-1	µg/l	1	50	UK DWS	9	0.00	3.60	0	< 1.0	< 1.0	< 1.0	3.60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	cis-1,3-dichloropropene	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Ethylbenzene	µg/l	1	300	UK DWS	9	0.00	8.70	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.70
	Hexachlorobutadiene	µg/l	1	0.6	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0*
	Xylene	µg/l		30	EQS Freshwater	0	0.00	0.00	0									
	Styrene	µg/l	1	50	EQS Freshwater	9	0.00	0.00	0	< 1.0*	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloroethene (PCE)	µg/l	1	10	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Toluene	µg/l	1	74	EQS Freshwater	9	0.00	5.60	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.60
	Trans-1,2-dichloroethylene (Tra	µg/l	1	50	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trans-1,3-dichloropropene	µg/l	1	20	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Trichloroethene (TCE)	µg/l	1	10	EQS Freshwater	9	0.00	4.30	0	< 1.0	< 1.0	< 1.0	4.30	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Vinyl Chloride	µg/l	1	5	UK DWS	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Dichloromethane	µg/l	1	20	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trichlorobenzene	µg/l	1	0.4	EQS Freshwater	9	0.00	0.00	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0*	< 1.0*	< 1.0	< 1.0	< 1.0*
SVOCs	2,4,6-Trichlorophenol	µg/l	0.05	200	UK DWS	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	2,4-Dichlorophenol	µg/l	0.05	4.2	EQS Freshwater	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Hexachlorobenzene	µg/l	0.05	0.05	EQS Freshwater	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Pentachlorophenol	µg/l		0.4	EQS Freshwater	0	0.00	0.00	0									
	Phenol	µg/l	0.05	7.7	EQS Freshwater	9	0.00	0.00	0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Appendix 10 : Preliminary Waste 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:

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

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

XYNST-AXNU6-49DBF

Job name

NTH2479 Oxfordshire RFI - Ardley Landfill

Description/Comments

Project

NTH2479 Oxfordshire RFI - Ardley Landfill

Site

NTH2479 Oxfordshire RFI - Ardley Landfill

Classified by

Name: [redacted]
Date:
14 Feb 2023 10:53 GMT
Telephone: [redacted]

Company:
BWB Consulting Ltd
Waterfront House, Station Street
Nottingham
NG2 3DQ

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

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	08 Dec 2016
3 year Refresher overdue	-

Purpose of classification

2 - Material Characterisation

Address of the waste

Ardley Landfill, Ardley Cottage, Oxfordshire **Post Code** OX27 7PH

SIC for the process giving rise to the waste

42120 Construction of railways and underground railways

Description of industry/producer giving rise to the waste

Construction

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

Construction

Description of the waste

Landfill Waste

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	DS217[3]	2.50-2.60	Non Hazardous		4
2	DS218A	5.30-5.60	Hazardous	HP 7, HP 11	6
3	DS219[2]	1.90-2.00	Non Hazardous		9
4	DS216[2]	2.60-2.70	Non Hazardous		11
5	BH07[3]	5.50-6.00	Non Hazardous		13
6	BH06[2]	2.80	Non Hazardous		15
7	DS209	1.20-1.40	Non Hazardous		17
8	DS209[2]	3.00-3.20	Non Hazardous		19
9	DS213	0.40-0.80	Non Hazardous		21
10	BH09[2]	3.40-3.50	Non Hazardous		23
11	BH09[3]	4.10-4.20	Non Hazardous		26
12	BH09[4]	5.90-6.00	Non Hazardous		28
13	BH01	1.80-1.90	Non Hazardous		30
14	BH08[3]	4.40-4.50	Non Hazardous		32
15	BH02[2]	1.40-1.50	Non Hazardous		34
16	DS217	0.20-0.30	Non Hazardous		36
17	DS217[2]	1.80-1.90	Non Hazardous		38
18	DS219	1.20-1.30	Non Hazardous		41
19	DS216	0.20-0.30	Non Hazardous		43
20	DS215	1.70-1.90	Non Hazardous		46
21	BH07	0.30	Non Hazardous		47
22	BH07[2]	0.85	Non Hazardous		49
23	BH06	1.90	Non Hazardous		51
24	BH06[3]	5.00-5.50	Non Hazardous		53
25	DS212	2.10-2.20	Non Hazardous		54
26	DS209[3]	5.00-5.20	Non Hazardous		55
27	DS210	1.60	Non Hazardous		57
28	DS211	1.70	Non Hazardous		59
29	DS213[2]	1.80-1.90	Non Hazardous		60
30	DS201	0.70-0.80	Non Hazardous		62
31	DS202	2.15-2.20	Non Hazardous		64
32	DS203	1.10-1.30	Non Hazardous		67
33	DS203[2]	2.20-2.30	Non Hazardous		69
34	DS207	0.20-0.30	Non Hazardous		72
35	DS205	0.20-0.30	Non Hazardous		74
36	DS205[2]	2.20-2.40	Non Hazardous		76
37	DS206	0.80-0.90	Non Hazardous		79
38	DS206[2]	1.60-1.70	Non Hazardous		81
39	DS206[3]	2.10-2.30	Non Hazardous		83
40	DS208	2.40-2.60	Non Hazardous		86
41	BH09	0.30	Non Hazardous		87
42	BH09[5]	7.90-8.00	Non Hazardous		89
43	BH05A[3]	2.60	Non Hazardous		91
44	BH05A[5]	7.80-7.90	Non Hazardous		94
45	BH05A[6]	9.50-9.60	Non Hazardous		97
46	BH04A	3.00-3.10	Non Hazardous		99
47	BH04A[3]	6.50-6.60	Non Hazardous		102
48	BH01[2]	3.80-3.90	Non Hazardous		105
49	BH08	0.90-1.00	Non Hazardous		108
50	BH08[2]	2.40-2.50	Non Hazardous		110
51	BH02	0.40-0.50	Non Hazardous		113
52	BH02[3]	3.40-3.50	Non Hazardous		115

Related documents

#	Name	Description
1	BWB Contaminated Land Suite WM3	waste stream template used to create this Job

Report

Created by: [redacted]

Created date: 14 Feb 2023 10:53 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	117

Appendices	Page
Appendix B: Rationale for selection of metal species	118
Appendix C: Version	119

Classification of sample: DS217[3]

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

Sample details

Sample name:
DS217[3]
Sample Depth:
2.50-2.60 m
Moisture content:
22%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 22% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		32 mg/kg	1.32	34.631 mg/kg	0.00346 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.185 mg/kg	0.000318 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.9 mg/kg	13.43	9.907 mg/kg	0.000991 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		56 mg/kg	1.462	67.088 mg/kg	0.00671 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.126	20.303 mg/kg	0.00203 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	42 mg/kg	1.56	53.699 mg/kg	0.00344 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		36 mg/kg	1.579	46.608 mg/kg	0.00466 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		97 mg/kg	2.774	220.567 mg/kg	0.0221 %	✓	
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				51	mg/kg		41.803	mg/kg	0.00418 %	✓	
				TPH									
16		acenaphthene				<			<		<		**ND**
			201-469-6	83-32-9									
17		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
18		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		**<LOD**
		604-001-00-2	203-632-7	108-95-2									
19		polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		**<LOD**
		602-039-00-4	215-648-1	1336-36-3									
20		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
		602-028-00-4	204-825-9	127-18-4									
21		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
		602-008-00-5	200-262-8	56-23-5									
22		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
		602-027-00-9	201-167-4	79-01-6									
23		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0503 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00418%)

Classification of sample: DS218A

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

Sample details

Sample name:
DS218A
Sample Depth:
5.30-5.60 m
Moisture content:
39%
(dry weight correction)

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

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.295%)

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

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.295%)

Determinands

Moisture content: 39% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	15.198 mg/kg	0.00152 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78 mg/kg	2.775	1.557 mg/kg	0.000156 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		25 mg/kg	13.43	241.547 mg/kg	0.0242 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		34 mg/kg	1.462	35.75 mg/kg	0.00358 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.126	21.87 mg/kg	0.00219 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	38	mg/kg	1.56	42.642	mg/kg	0.00273 %	✓	
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 %		<LOD
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		23	mg/kg	1.579	26.136	mg/kg	0.00261 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		320	mg/kg	2.774	638.652	mg/kg	0.0639 %	✓	
13		pH			PH		7.8	pH		7.8	pH	7.8 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
15		TPH (C6 to C40) petroleum group			TPH		4100	mg/kg		2949.64	mg/kg	0.295 %	✓	
16		acenaphthylene		205-917-1	208-96-8		<			<		<		ND
17		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.59	mg/kg		0.424	mg/kg	0.0000424 %	✓	
18		benzo[ghi]perylene		205-883-8	191-24-2		<			<		<		ND
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<			<		<		ND
20		indeno[123-cd]pyrene		205-893-2	193-39-5		<			<		<		ND
21		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
22		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
23		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
24		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
25		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
26		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
											Total:	0.398 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.295%)

Classification of sample: DS219[2]

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

Sample details

Sample name:
DS219[2]
Sample Depth:
1.90-2.00 m
Moisture content:
11%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	13.084 mg/kg	0.00131 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.45 mg/kg	2.775	1.125 mg/kg	0.000113 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		13 mg/kg	1.462	17.117 mg/kg	0.00171 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	13.186 mg/kg	0.00132 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	10 mg/kg	1.56	14.052 mg/kg	0.000901 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		11 mg/kg	1.579	15.653 mg/kg	0.00157 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		28 mg/kg	2.774	69.978 mg/kg	0.007 %	✓	
13	pH			PH		8 pH		8 pH	8pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17	●	ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
19	●	acenaphthylene				<			<		<		**ND**
			205-917-1	208-96-8									
20	●	anthracene				<			<		<		**ND**
			204-371-1	120-12-7									
21	●	benzo[ghi]perylene				<			<		<		**ND**
			205-883-8	191-24-2									
22		benzo[k]fluoranthene				<			<		<		**ND**
		601-036-00-5	205-916-6	207-08-9									
23		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
24	●	indeno[123-cd]pyrene				<			<		<		**ND**
			205-893-2	193-39-5									
25		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
26	●	polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
27		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
28		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
29		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
30		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0192 %		

Key

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

Classification of sample: DS216[2]

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

Sample details

Sample name:
DS216[2]
Sample Depth:
2.60-2.70 m
Moisture content:
19%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 19% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	17.752 mg/kg	0.00178 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.98 mg/kg	2.775	2.286 mg/kg	0.000229 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.386 mg/kg	0.000339 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		44 mg/kg	1.462	54.041 mg/kg	0.0054 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	17.03 mg/kg	0.0017 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21 mg/kg	1.56	27.526 mg/kg	0.00176 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		28 mg/kg	1.579	37.165 mg/kg	0.00372 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		85 mg/kg	2.774	198.153 mg/kg	0.0198 %	✓	
13	pH			PH		7.6 pH		7.6 pH	7.6 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
19		acenaphthene				<			<		<		**ND**
			201-469-6	83-32-9									
20		acenaphthylene				<			<		<		**ND**
			205-917-1	208-96-8									
21		anthracene				<			<		<		**ND**
			204-371-1	120-12-7									
22		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
23		fluorene				<			<		<		**ND**
			201-695-5	86-73-7									
24		indeno[123-cd]pyrene				<			<		<		**ND**
			205-893-2	193-39-5									
25		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
26		polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
27		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
28		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
29		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
30		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0397 %		

Key

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

Classification of sample: BH07[3]

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

Sample details

Sample name:
BH07[3]
Sample Depth:
5.50-6.00 m
Moisture content:
29%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 29% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	13.306	mg/kg	0.00133 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.68	mg/kg	2.775	1.463	mg/kg	0.000146 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	6.247	mg/kg	0.000625 %	✓	
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28	mg/kg	1.462	31.724	mg/kg	0.00317 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.126	13.092	mg/kg	0.00131 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19	mg/kg	1.56	22.974	mg/kg	0.00147 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		24	mg/kg	1.579	29.386	mg/kg	0.00294 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		78	mg/kg	2.774	167.739	mg/kg	0.0168 %	✓	
13		pH			PH		7.3	pH		7.3	pH	7.3 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				48	mg/kg		37.209	mg/kg	0.00372 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		acenaphthene				<			<		<		ND
			201-469-6	83-32-9									
20		acenaphthylene				<			<		<		ND
			205-917-1	208-96-8									
21		anthracene				<			<		<		ND
			204-371-1	120-12-7									
22		benzo[ghi]perylene				<			<		<		ND
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<			<		<		ND
		601-036-00-5	205-916-6	207-08-9									
24		dibenz[a,h]anthracene				<			<		<		ND
		601-041-00-2	200-181-8	53-70-3									
25		indeno[123-cd]pyrene				<			<		<		ND
			205-893-2	193-39-5									
26		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
27		polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
28		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
29		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
30		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
31		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0355 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00372%)

Classification of sample: BH06[2]

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

Sample details

Sample name:
BH06[2]
Sample Depth:
2.80 m
Moisture content:
17%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	14.67 mg/kg	0.00147 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.55 mg/kg	2.775	1.305 mg/kg	0.00013 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6 mg/kg	13.43	18.366 mg/kg	0.00184 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	22.485 mg/kg	0.00225 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	13.472 mg/kg	0.00135 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17 mg/kg	1.56	22.664 mg/kg	0.00145 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		13 mg/kg	1.579	17.55 mg/kg	0.00175 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		38 mg/kg	2.774	90.1 mg/kg	0.00901 %	✓	
13	pH			PH		7.4 pH		7.4 pH	7.4 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16	●	acenaphthylene				<			<		<		**ND**
			205-917-1	208-96-8									
17		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
18		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
19	●	polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
20		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
21		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
22		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
23		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0227 %		

Key

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

Classification of sample: DS209

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

Sample details

Sample name:
DS209
Sample Depth:
1.20-1.40 m
Moisture content:
16%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	14.797 mg/kg	0.00148 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.65 mg/kg	2.775	1.555 mg/kg	0.000156 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.9 mg/kg	13.43	10.42 mg/kg	0.00104 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	23.939 mg/kg	0.00239 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	14.559 mg/kg	0.00146 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17 mg/kg	1.56	22.859 mg/kg	0.00147 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15 mg/kg	1.579	20.425 mg/kg	0.00204 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		43 mg/kg	2.774	102.835 mg/kg	0.0103 %	✓	
13	pH			PH		7.6 pH		7.6 pH	7.6 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				26	mg/kg		22.414	mg/kg	0.00224 %	✓	
				TPH									
16	●	acenaphthene				<			<		<		ND
			201-469-6	83-32-9									
17	●	acenaphthylene				<			<		<		ND
			205-917-1	208-96-8									
18	●	anthracene				<			<		<		ND
			204-371-1	120-12-7									
19		dibenz[a,h]anthracene				<			<		<		ND
		601-041-00-2	200-181-8	53-70-3									
20	●	fluorene				<			<		<		ND
			201-695-5	86-73-7									
21		naphthalene				<			<		<		ND
		601-052-00-2	202-049-5	91-20-3									
22		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.023 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00224%)

Classification of sample: DS209[2]

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

Sample details

Sample name:
DS209[2]
Sample Depth:
3.00-3.20 m
Moisture content:
17%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑							
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1	mg/kg	1.32	10.269	mg/kg	0.00103 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.4	mg/kg	2.775	0.949	mg/kg	0.0000949 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.591	mg/kg	0.000459 %	✓	
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.4	mg/kg	1.285	0.439	mg/kg	0.0000342 %	✓	
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	17.489	mg/kg	0.00175 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9.9	mg/kg	1.126	9.527	mg/kg	0.000953 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15	mg/kg	1.56	19.998	mg/kg	0.00128 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		12	mg/kg	1.579	16.2	mg/kg	0.00162 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		42	mg/kg	2.774	99.585	mg/kg	0.00996 %	✓	
13	pH			PH		7.6	pH		7.6	pH	7.6 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				160	mg/kg		136.752	mg/kg	0.0137 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17	●	ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19	●	acenaphthene				<			<		<		ND
			201-469-6	83-32-9									
20	●	acenaphthylene				<			<		<		ND
			205-917-1	208-96-8									
21	●	fluorene				<			<		<		ND
			201-695-5	86-73-7									
22		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0328 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0137%)

Classification of sample: DS213

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

Sample details

Sample name:
DS213
Sample Depth:
0.40-0.80 m
Moisture content:
12%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	11.789	mg/kg	0.00118 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.61	mg/kg	2.775	1.512	mg/kg	0.000151 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2	mg/kg	13.43	<2.686	mg/kg	<0.000269 %		<**LOD**
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	20.879	mg/kg	0.00209 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.126	10.053	mg/kg	0.00101 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14	mg/kg	1.56	19.498	mg/kg	0.00125 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		13	mg/kg	1.579	18.333	mg/kg	0.00183 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		32	mg/kg	2.774	79.261	mg/kg	0.00793 %	✓	
13		pH			PH		7.8	pH		7.8	pH	7.8 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16		acenaphthene				<			<		<		**ND**
			201-469-6	83-32-9									
17		acenaphthylene				<			<		<		**ND**
			205-917-1	208-96-8									
18		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
19		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0172 %		

Key

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

Classification of sample: BH09[2]

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

Sample details

Sample name:
BH09[2]
Sample Depth:
3.40-3.50 m
Moisture content:
21%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 21% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	16.368 mg/kg	0.00164 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9 mg/kg	2.775	2.064 mg/kg	0.000206 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8 mg/kg	13.43	8.879 mg/kg	0.000888 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25 mg/kg	1.462	30.197 mg/kg	0.00302 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	12.096 mg/kg	0.00121 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15 mg/kg	1.56	19.337 mg/kg	0.00124 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		21 mg/kg	1.579	27.413 mg/kg	0.00274 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		49 mg/kg	2.774	112.341 mg/kg	0.0112 %	✓	
13	pH			PH		8.1 pH		8.1 pH	8.1 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				110	mg/kg		90.909	mg/kg	0.00909 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		acenaphthene				<			<		<		ND
			201-469-6	83-32-9									
20		acenaphthylene				<			<		<		ND
			205-917-1	208-96-8									
21		anthracene				<			<		<		ND
			204-371-1	120-12-7									
22		benzo[ghi]perylene				<			<		<		ND
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<			<		<		ND
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<			<		<		ND
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<			<		<		ND
		601-041-00-2	200-181-8	53-70-3									
26		fluorene				<			<		<		ND
			201-695-5	86-73-7									
27		indeno[123-cd]pyrene				<			<		<		ND
			205-893-2	193-39-5									
28		phenanthrene				<			<		<		ND
			201-581-5	85-01-8									
29		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
30		polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
31		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
32		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
33		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
34		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0353 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00909%)

Classification of sample: BH09[3]

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

Sample details

Sample name:
BH09[3]
Sample Depth:
4.10-4.20 m
Moisture content:
14%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	13.898 mg/kg	0.00139 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.75 mg/kg	2.775	1.826 mg/kg	0.000183 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4 mg/kg	13.43	4.712 mg/kg	0.000471 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	25.641 mg/kg	0.00256 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.126	11.851 mg/kg	0.00119 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	11 mg/kg	1.56	15.051 mg/kg	0.000965 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17 mg/kg	1.579	23.554 mg/kg	0.00236 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		40 mg/kg	2.774	97.338 mg/kg	0.00973 %	✓	
13	pH			PH		7.9 pH		7.9 pH	7.9 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				37	mg/kg		32.456	mg/kg	0.00325 %	✓	
				TPH									
16		acenaphthene				<			<		<		ND
			201-469-6	83-32-9									
17		acenaphthylene				<			<		<		ND
			205-917-1	208-96-8									
18		benzo[ghi]perylene				<			<		<		ND
			205-883-8	191-24-2									
19		dibenz[a,h]anthracene				<			<		<		ND
		601-041-00-2	200-181-8	53-70-3									
20		fluorene				<			<		<		ND
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<			<		<		ND
			205-893-2	193-39-5									
22		naphthalene				<			<		<		ND
		601-052-00-2	202-049-5	91-20-3									
23		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0226 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00325%)

Classification of sample: BH09[4]

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

Sample details

Sample name:
BH09[4]
Sample Depth:
5.90-6.00 m
Moisture content:
23%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 23% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	13.955 mg/kg	0.0014 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.57 mg/kg	2.775	1.286 mg/kg	0.000129 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.7 mg/kg	13.43	29.48 mg/kg	0.00295 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	21.389 mg/kg	0.00214 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.126	24.715 mg/kg	0.00247 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	50 mg/kg	1.56	63.407 mg/kg	0.00407 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15 mg/kg	1.579	19.262 mg/kg	0.00193 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		99 mg/kg	2.774	223.285 mg/kg	0.0223 %	✓	
13	pH			PH		8.5 pH		8.5 pH	8.5 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					1.9 mg/kg	1.884	2.91 mg/kg	0.000291 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				300	mg/kg		243.902	mg/kg	0.0244 %	✓	
				TPH									
16		acenaphthylene				<			<		<		**ND**
			205-917-1	208-96-8									
17		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
18		naphthalene				<			<		<		**ND**
		601-052-00-2	202-049-5	91-20-3									
19		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		**<LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0624 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0244%)

Classification of sample: BH01

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

Sample details

Sample name:
BH01
Sample Depth:
1.80-1.90 m
Moisture content:
15%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	20.666 mg/kg	0.00207 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.62 mg/kg	2.775	1.496 mg/kg	0.00015 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	8.175 mg/kg	0.000817 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	24.147 mg/kg	0.00241 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.126	10.769 mg/kg	0.00108 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18 mg/kg	1.56	24.414 mg/kg	0.00157 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15 mg/kg	1.579	20.602 mg/kg	0.00206 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		41 mg/kg	2.774	98.904 mg/kg	0.00989 %	✓	
13	pH			PH		10.1 pH		10.1 pH	10.1 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				150	mg/kg		130.435	mg/kg	0.013 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		acenaphthylene				<			<		<		ND
			205-917-1	208-96-8									
20		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
21		polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
22		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
23		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
24		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0371 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH08[3]

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

Sample details

Sample name:
BH08[3]
Sample Depth:
4.40-4.50 m
Moisture content:
49%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 49% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	15.95 mg/kg	0.0016 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.24 mg/kg	2.775	0.447 mg/kg	0.0000447 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.2 mg/kg	13.43	28.843 mg/kg	0.00288 %	✓	
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.8 mg/kg	1.285	0.69 mg/kg	0.0000537 %	✓	
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		56 mg/kg	1.462	54.931 mg/kg	0.00549 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.126	30.225 mg/kg	0.00302 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	47 mg/kg	1.56	49.202 mg/kg	0.00315 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		22 mg/kg	1.579	23.321 mg/kg	0.00233 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		240 mg/kg	2.774	446.842 mg/kg	0.0447 %	✓	
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				5.9 mg/kg	1.884	7.46 mg/kg	0.000746 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
14	●	TPH (C6 to C40) petroleum group		TPH		3700	mg/kg		2483.221	mg/kg	0.248 %	✓	
15	●	acenaphthene	201-469-6	83-32-9		0.54	mg/kg		0.362	mg/kg	0.0000362 %	✓	
16	●	acenaphthylene	205-917-1	208-96-8		0.07	mg/kg		0.047	mg/kg	0.0000047 %	✓	
17	●	anthracene	204-371-1	120-12-7		0.11	mg/kg		0.0738	mg/kg	0.00000738 %	✓	
18		benzo[a]anthracene											
		601-033-00-9	200-280-6	56-55-3		0.27	mg/kg		0.181	mg/kg	0.0000181 %	✓	
19		benzo[a]pyrene; benzo[def]chrysene											
		601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
20	●	benzo[ghi]perylene	205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
21		benzo[k]fluoranthene											
		601-036-00-5	205-916-6	207-08-9		<			<		<		**ND**
22		chrysene											
		601-048-00-0	205-923-4	218-01-9		0.22	mg/kg		0.148	mg/kg	0.0000148 %	✓	
23		dibenz[a,h]anthracene											
		601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
24	●	fluoranthene	205-912-4	206-44-0		0.54	mg/kg		0.362	mg/kg	0.0000362 %	✓	
25	●	fluorene	201-695-5	86-73-7		0.47	mg/kg		0.315	mg/kg	0.0000315 %	✓	
26	●	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
27		naphthalene											
		601-052-00-2	202-049-5	91-20-3		3.3	mg/kg		2.215	mg/kg	0.000221 %	✓	
28	●	phenanthrene	201-581-5	85-01-8		0.72	mg/kg		0.483	mg/kg	0.0000483 %	✓	
29	●	pyrene	204-927-3	129-00-0		0.5	mg/kg		0.336	mg/kg	0.0000336 %	✓	
30		phenol											
		604-001-00-2	203-632-7	108-95-2		2.9	mg/kg		1.946	mg/kg	0.000195 %	✓	
										Total:	0.313 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.248%)

Classification of sample: BH02[2]

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

Sample details

Sample name:
BH02[2]
Sample Depth:
1.40-1.50 m
Moisture content:
13%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	14.021 mg/kg	0.0014 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.64 mg/kg	2.775	1.572 mg/kg	0.000157 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6 mg/kg	13.43	19.016 mg/kg	0.0019 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	20.695 mg/kg	0.00207 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	17.935 mg/kg	0.00179 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	41 mg/kg	1.56	56.595 mg/kg	0.00363 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		13 mg/kg	1.579	18.171 mg/kg	0.00182 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		68 mg/kg	2.774	166.94 mg/kg	0.0167 %	✓	
13	pH			PH		8.1 pH		8.1 pH	8.1 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				32	mg/kg		28.319	mg/kg	0.00283 %	✓	
				TPH									
16		acenaphthylene				<			<		<		**ND**
			205-917-1	208-96-8									
17		dibenz[a,h]anthracene				<			<		<		**ND**
		601-041-00-2	200-181-8	53-70-3									
18		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		**<LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0328 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00283%)

Classification of sample: DS217

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

Sample details

Sample name:
DS217
Sample Depth:
0.20-0.30 m
Moisture content:
13%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	14.021 mg/kg	0.0014 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.75 mg/kg	2.775	1.842 mg/kg	0.000184 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	24.575 mg/kg	0.00246 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.126	11.956 mg/kg	0.0012 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	16.564 mg/kg	0.00106 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17 mg/kg	1.579	23.762 mg/kg	0.00238 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		39 mg/kg	2.774	95.745 mg/kg	0.00957 %	✓	
13	pH			PH		8.3 pH		8.3 pH	8.3 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
29		naphthalene				0.58	mg/kg		0.513	mg/kg	0.0000513 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0201 %		

Key

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

Classification of sample: DS217[2]

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

Sample details

Sample name:
DS217[2]
Sample Depth:
1.80-1.90 m
Moisture content:
20%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 20% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑							
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27	mg/kg	1.32	29.707	mg/kg	0.00297 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.6	mg/kg	2.775	3.7	mg/kg	0.00037 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1	mg/kg	13.43	11.192	mg/kg	0.00112 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		51	mg/kg	1.462	62.116	mg/kg	0.00621 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		54	mg/kg	1.126	50.665	mg/kg	0.00507 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	170	mg/kg	1.56	220.974	mg/kg	0.0142 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		41	mg/kg	1.579	53.966	mg/kg	0.0054 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		260	mg/kg	2.774	601.065	mg/kg	0.0601 %	✓	
13	pH			PH		7.7	pH		7.7	pH	7.7 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					1.7	mg/kg	1.884	2.669	mg/kg	0.000267 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				58	mg/kg		48.333	mg/kg	0.00483 %	✓	
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				0.14	mg/kg		0.117	mg/kg	0.0000117 %	✓	
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.73	mg/kg		0.608	mg/kg	0.0000608 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.65	mg/kg		0.542	mg/kg	0.0000542 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.81	mg/kg		0.675	mg/kg	0.0000675 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				0.43	mg/kg		0.358	mg/kg	0.0000358 %	✓	
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.37	mg/kg		0.308	mg/kg	0.0000308 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.54	mg/kg		0.45	mg/kg	0.000045 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				0.11	mg/kg		0.0917	mg/kg	0.00000917 %	✓	
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				1.2	mg/kg		1	mg/kg	0.0001 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				0.06	mg/kg		0.05	mg/kg	0.000005 %	✓	
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				0.41	mg/kg		0.342	mg/kg	0.0000342 %	✓	
			205-893-2	193-39-5									
29		naphthalene				0.62	mg/kg		0.517	mg/kg	0.0000517 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.48	mg/kg		0.4	mg/kg	0.00004 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				1.2	mg/kg		1	mg/kg	0.0001 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.101 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00483%)

Classification of sample: DS219

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

Sample details

Sample name:
DS219
Sample Depth:
1.20-1.30 m
Moisture content:
9.5%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.6	mg/kg	1.32	9.164	mg/kg	0.000916 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.32	mg/kg	2.775	0.811	mg/kg	0.0000811 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2	mg/kg	13.43	<2.686	mg/kg	<0.000269 %		<**LOD**
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.4	mg/kg	1.462	11.212	mg/kg	0.00112 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4.8	mg/kg	1.126	4.935	mg/kg	0.000494 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	4.7	mg/kg	1.56	6.695	mg/kg	0.000429 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		8.2	mg/kg	1.579	11.828	mg/kg	0.00118 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		11	mg/kg	2.774	27.868	mg/kg	0.00279 %	✓	
13		pH			PH		7.4	pH		7.4	pH	7.4 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.73	mg/kg		0.667	mg/kg	0.0000667 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.00891 %		

Key

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

Classification of sample: DS216

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

Sample details

Sample name:
DS216
Sample Depth:
0.20-0.30 m
Moisture content:
12%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	17.683	mg/kg	0.00177 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78	mg/kg	2.775	1.933	mg/kg	0.000193 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2	mg/kg	13.43	<2.686	mg/kg	<0.000269 %		<LOD
5		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 %		<LOD
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22	mg/kg	1.462	28.709	mg/kg	0.00287 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.126	14.074	mg/kg	0.00141 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16	mg/kg	1.56	22.283	mg/kg	0.00143 %	✓	
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 %		<LOD
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17	mg/kg	1.579	23.975	mg/kg	0.0024 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		40	mg/kg	2.774	99.077	mg/kg	0.00991 %	✓	
13		pH			PH		8.1	pH		8.1	pH	8.1 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				22	mg/kg		19.643	mg/kg	0.00196 %	✓	
				TPH									
16	●	acenaphthene				0.08	mg/kg		0.0714	mg/kg	0.00000714 %	✓	
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				0.27	mg/kg		0.241	mg/kg	0.0000241 %	✓	
			204-371-1	120-12-7									
19		benzo[a]anthracene				1.9	mg/kg		1.696	mg/kg	0.00017 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				2.2	mg/kg		1.964	mg/kg	0.000196 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				2.5	mg/kg		2.232	mg/kg	0.000223 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				1.4	mg/kg		1.25	mg/kg	0.000125 %	✓	
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.97	mg/kg		0.866	mg/kg	0.0000866 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				1.6	mg/kg		1.429	mg/kg	0.000143 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				0.27	mg/kg		0.241	mg/kg	0.0000241 %	✓	
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				3.5	mg/kg		3.125	mg/kg	0.000313 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				0.09	mg/kg		0.0804	mg/kg	0.00000804 %	✓	
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				1.3	mg/kg		1.161	mg/kg	0.000116 %	✓	
			205-893-2	193-39-5									
29		naphthalene				0.27	mg/kg		0.241	mg/kg	0.0000241 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				1.1	mg/kg		0.982	mg/kg	0.0000982 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				3.2	mg/kg		2.857	mg/kg	0.000286 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0245 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00196%)

Classification of sample: DS215

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

Sample details

Sample name:
DS215
Sample Depth:
1.70-1.90 m
Moisture content:
14%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	●	confirm TPH has NOT arisen from diesel or petrol					☑					
2	●	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<**LOD**
									Total:	7.0e-07 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH07

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

Sample details

Sample name:
BH07
Sample Depth:
0.30 m
Moisture content:
14%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	16.215 mg/kg	0.00162 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.77 mg/kg	2.775	1.875 mg/kg	0.000187 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.534 mg/kg	0.000353 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	26.923 mg/kg	0.00269 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.126	11.851 mg/kg	0.00119 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15 mg/kg	1.56	20.524 mg/kg	0.00132 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		16 mg/kg	1.579	22.168 mg/kg	0.00222 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		43 mg/kg	2.774	104.639 mg/kg	0.0105 %	✓	
13	pH			PH		8 pH		8 pH	8pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.59	mg/kg		0.518	mg/kg	0.0000518 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0217 %		

Key

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

Classification of sample: BH07[2]

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

Sample details

Sample name:
BH07[2]
Sample Depth:
0.85 m
Moisture content:
12%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	14.146 mg/kg	0.00141 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.74 mg/kg	2.775	1.834 mg/kg	0.000183 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	7.195 mg/kg	0.000719 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	26.099 mg/kg	0.00261 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.126	16.084 mg/kg	0.00161 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	16.712 mg/kg	0.00107 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15 mg/kg	1.579	21.154 mg/kg	0.00212 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		35 mg/kg	2.774	86.692 mg/kg	0.00867 %	✓	
13	pH			PH		7.9 pH		7.9 pH	7.9 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.55	mg/kg		0.491	mg/kg	0.0000491 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.02 %		

Key

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

Classification of sample: BH06

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

Sample details

Sample name:
BH06
Sample Depth:
1.90 m
Moisture content:
14%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2 mg/kg	1.32	9.497 mg/kg	0.00095 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.42 mg/kg	2.775	1.022 mg/kg	0.000102 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2 mg/kg	13.43	<2.686 mg/kg	<0.000269 %		<LOD
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11 mg/kg	1.462	14.103 mg/kg	0.00141 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.3 mg/kg	1.126	7.21 mg/kg	0.000721 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	7.2 mg/kg	1.56	9.851 mg/kg	0.000632 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		9.9 mg/kg	1.579	13.717 mg/kg	0.00137 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		18 mg/kg	2.774	43.802 mg/kg	0.00438 %	✓	
13	pH			PH		7.5 pH		7.5 pH	7.5 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.08	mg/kg		0.0702	mg/kg	0.00000702 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				1	mg/kg		0.877	mg/kg	0.0000877 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				0.09	mg/kg		0.0789	mg/kg	0.00000789 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0115 %		

Key

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

Classification of sample: BH06[3]

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

Sample details

Sample name:
BH06[3]
Sample Depth:
5.00-5.50 m
Moisture content:
32%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 32% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	•	confirm TPH has NOT arisen from diesel or petrol					☑					
2		benzene	601-020-00-8	200-753-7	71-43-2		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
3	•	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
4		toluene	601-021-00-3	203-625-9	108-88-3		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
									Total:	0.0015 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: DS212

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

Sample details

Sample name:
DS212
Sample Depth:
2.10-2.20 m
Moisture content:
19%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 19% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	●	confirm TPH has NOT arisen from diesel or petrol					☑					
2		benzene	601-020-00-8	200-753-7	71-43-2		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
3	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
4		toluene	601-021-00-3	203-625-9	108-88-3		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
5	●	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
6		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
7		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
8		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
9		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
									Total:	0.0035 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: DS209[3]

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

Sample details

Sample name:
DS209[3]
Sample Depth:
5.00-5.20 m
Moisture content:
9.8%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 9.8% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	13.227	mg/kg	0.00132 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.43	mg/kg	2.775	1.087	mg/kg	0.000109 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.1	mg/kg	13.43	25.686	mg/kg	0.00257 %	✓	
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		11	mg/kg	1.462	14.642	mg/kg	0.00146 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12	mg/kg	1.126	12.305	mg/kg	0.00123 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13	mg/kg	1.56	18.468	mg/kg	0.00118 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		11	mg/kg	1.579	15.824	mg/kg	0.00158 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		26	mg/kg	2.774	65.69	mg/kg	0.00657 %	✓	
13		pH			PH		8.1	pH		8.1	pH	8.1 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.09	mg/kg		0.082	mg/kg	0.0000082 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.07	mg/kg		0.0638	mg/kg	0.00000638 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.09	mg/kg		0.082	mg/kg	0.0000082 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.05	mg/kg		0.0455	mg/kg	0.00000455 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.09	mg/kg		0.082	mg/kg	0.0000082 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.25	mg/kg		0.228	mg/kg	0.0000228 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.13	mg/kg		0.118	mg/kg	0.0000118 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.22	mg/kg		0.2	mg/kg	0.00002 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0176 %		

Key

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

Classification of sample: DS210

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

Sample details

Sample name:
DS210
Sample Depth:
1.60 m
Moisture content:
16%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	13.659 mg/kg	0.00137 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.89 mg/kg	2.775	2.129 mg/kg	0.000213 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.5 mg/kg	13.43	28.944 mg/kg	0.00289 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	35.279 mg/kg	0.00353 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	13.588 mg/kg	0.00136 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	12 mg/kg	1.56	16.136 mg/kg	0.00103 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		29 mg/kg	1.579	39.487 mg/kg	0.00395 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		54 mg/kg	2.774	129.141 mg/kg	0.0129 %	✓	
13	pH			PH		7.1 pH		7.1 pH	7.1 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.18	mg/kg		0.155	mg/kg	0.0000155 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.14	mg/kg		0.121	mg/kg	0.0000121 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.21	mg/kg		0.181	mg/kg	0.0000181 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.08	mg/kg		0.069	mg/kg	0.0000069 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.17	mg/kg		0.147	mg/kg	0.0000147 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.31	mg/kg		0.267	mg/kg	0.0000267 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.1	mg/kg		0.0862	mg/kg	0.00000862 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.3	mg/kg		0.259	mg/kg	0.0000259 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0289 %		

Key

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

Classification of sample: DS211

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

Sample details

Sample name:
DS211
Sample Depth:
1.70 m
Moisture content:
16%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	●	confirm TPH has NOT arisen from diesel or petrol					☑					
2		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
3		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
4		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
5		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<5 mg/kg		<5 mg/kg	<0.0005 %		**<LOD**
									Total:	0.002 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: DS213[2]

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

Sample details

Sample name:
DS213[2]
Sample Depth:
1.80-1.90 m
Moisture content:
9.3%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 9.3% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	16.912 mg/kg	0.00169 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6 mg/kg	2.775	1.524 mg/kg	0.000152 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	8.601 mg/kg	0.00086 %	✓	
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.7 mg/kg	1.285	0.823 mg/kg	0.000064 %	✓	
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	24.07 mg/kg	0.00241 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	17.512 mg/kg	0.00175 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	40 mg/kg	1.56	57.084 mg/kg	0.00366 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		14 mg/kg	1.579	20.231 mg/kg	0.00202 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		93 mg/kg	2.774	236.044 mg/kg	0.0236 %	✓	
13	pH			PH		8.4 pH		8.4 pH	8.4 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				670	mg/kg		612.992	mg/kg	0.0613 %	✓	
				TPH									
16		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.098 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0613%)

Classification of sample: DS201

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

Sample details

Sample name:
DS201
Sample Depth:
0.70-0.80 m
Moisture content:
12%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.5 mg/kg	1.32	7.663 mg/kg	0.000766 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.42 mg/kg	2.775	1.041 mg/kg	0.000104 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4 mg/kg	13.43	4.796 mg/kg	0.00048 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.3 mg/kg	1.462	10.831 mg/kg	0.00108 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.2 mg/kg	1.126	7.238 mg/kg	0.000724 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	5.4 mg/kg	1.56	7.521 mg/kg	0.000482 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		8.8 mg/kg	1.579	12.41 mg/kg	0.00124 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		12 mg/kg	2.774	29.723 mg/kg	0.00297 %	✓	
13	pH			PH		7.9 pH		7.9 pH	7.9 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
29		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.00942 %		

Key

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

Classification of sample: DS202

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

Sample details

Sample name:
DS202
Sample Depth:
2.15-2.20 m
Moisture content:
28%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 28% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.9 mg/kg	1.32	10.212 mg/kg	0.00102 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.41 mg/kg	2.775	0.889 mg/kg	0.0000889 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		4.6 mg/kg	13.43	48.264 mg/kg	0.00483 %	✓	
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.5 mg/kg	1.285	0.502 mg/kg	0.0000391 %	✓	
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		33 mg/kg	1.462	37.681 mg/kg	0.00377 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.126	15.833 mg/kg	0.00158 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17 mg/kg	1.56	20.716 mg/kg	0.00133 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		21 mg/kg	1.579	25.914 mg/kg	0.00259 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		60 mg/kg	2.774	130.038 mg/kg	0.013 %	✓	
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				680	mg/kg		531.25	mg/kg	0.0531 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
21		anthracene				0.09	mg/kg		0.0703	mg/kg	0.00000703 %	✓	
			204-371-1	120-12-7									
22		benzo[a]anthracene				0.16	mg/kg		0.125	mg/kg	0.0000125 %	✓	
		601-033-00-9	200-280-6	56-55-3									
23		benzo[a]pyrene; benzo[def]chrysene				0.14	mg/kg		0.109	mg/kg	0.0000109 %	✓	
		601-032-00-3	200-028-5	50-32-8									
24		benzo[b]fluoranthene				0.18	mg/kg		0.141	mg/kg	0.0000141 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
26		benzo[k]fluoranthene				0.06	mg/kg		0.0469	mg/kg	0.00000469 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		chrysene				0.16	mg/kg		0.125	mg/kg	0.0000125 %	✓	
		601-048-00-0	205-923-4	218-01-9									
28		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29		fluoranthene				0.45	mg/kg		0.352	mg/kg	0.0000352 %	✓	
			205-912-4	206-44-0									
30		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
31		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
32		naphthalene				0.26	mg/kg		0.203	mg/kg	0.0000203 %	✓	
		601-052-00-2	202-049-5	91-20-3									
33		phenanthrene				0.47	mg/kg		0.367	mg/kg	0.0000367 %	✓	
			201-581-5	85-01-8									
34		pyrene				0.4	mg/kg		0.313	mg/kg	0.0000313 %	✓	
			204-927-3	129-00-0									
35		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
36		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
37		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
38		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
39		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0856 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0531%)

Classification of sample: DS203

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

Sample details

Sample name:
DS203
Sample Depth:
1.10-1.30 m
Moisture content:
13%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.6	mg/kg	1.32	8.88	mg/kg	0.000888 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.32	mg/kg	2.775	0.786	mg/kg	0.0000786 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		<0.2	mg/kg	13.43	<2.686	mg/kg	<0.000269 %		<**LOD**
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		8.2	mg/kg	1.462	10.606	mg/kg	0.00106 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.8	mg/kg	1.126	5.779	mg/kg	0.000578 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	5.6	mg/kg	1.56	7.73	mg/kg	0.000496 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		9.3	mg/kg	1.579	12.999	mg/kg	0.0013 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		13	mg/kg	2.774	31.915	mg/kg	0.00319 %	✓	
13		pH			PH		7.9	pH		7.9	pH	7.9 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.00943 %		

Key

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

Classification of sample: DS203[2]

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

Sample details

Sample name:
DS203[2]
Sample Depth:
2.20-2.30 m
Moisture content:
16%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23 mg/kg	1.32	26.179 mg/kg	0.00262 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.72 mg/kg	2.775	1.723 mg/kg	0.000172 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.789 mg/kg	0.000579 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	32.759 mg/kg	0.00328 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	14.559 mg/kg	0.00146 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15 mg/kg	1.56	20.17 mg/kg	0.00129 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		19 mg/kg	1.579	25.871 mg/kg	0.00259 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		66 mg/kg	2.774	157.839 mg/kg	0.0158 %	✓	
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				37	mg/kg		31.897	mg/kg	0.00319 %	✓	
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				0.07	mg/kg		0.0603	mg/kg	0.00000603 %	✓	
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.25	mg/kg		0.216	mg/kg	0.0000216 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.21	mg/kg		0.181	mg/kg	0.0000181 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.27	mg/kg		0.233	mg/kg	0.0000233 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				0.16	mg/kg		0.138	mg/kg	0.0000138 %	✓	
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.14	mg/kg		0.121	mg/kg	0.0000121 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.19	mg/kg		0.164	mg/kg	0.0000164 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.52	mg/kg		0.448	mg/kg	0.0000448 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				0.15	mg/kg		0.129	mg/kg	0.0000129 %	✓	
			205-893-2	193-39-5									
29		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.35	mg/kg		0.302	mg/kg	0.0000302 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.5	mg/kg		0.431	mg/kg	0.0000431 %	✓	
			204-927-3	129-00-0									
32		phenol				8.1	mg/kg		6.983	mg/kg	0.000698 %	✓	
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0323 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00319%)

Classification of sample: DS207

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

Sample details

Sample name:
DS207
Sample Depth:
0.20-0.30 m
Moisture content:
16%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	18.211 mg/kg	0.00182 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.632 mg/kg	0.000263 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.473 mg/kg	0.000347 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	34.019 mg/kg	0.0034 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	12.618 mg/kg	0.00126 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21 mg/kg	1.56	28.238 mg/kg	0.00181 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		21 mg/kg	1.579	28.594 mg/kg	0.00286 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		52 mg/kg	2.774	124.358 mg/kg	0.0124 %	✓	
13	pH			PH		8.2 pH		8.2 pH	8.2 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.12	mg/kg		0.103	mg/kg	0.0000103 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.11	mg/kg		0.0948	mg/kg	0.00000948 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.14	mg/kg		0.121	mg/kg	0.0000121 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.07	mg/kg		0.0603	mg/kg	0.00000603 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.07	mg/kg		0.0603	mg/kg	0.00000603 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.14	mg/kg		0.121	mg/kg	0.0000121 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				0.15	mg/kg		0.129	mg/kg	0.0000129 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0258 %		

Key

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

Classification of sample: DS205

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

Sample details

Sample name:
DS205
Sample Depth:
0.20-0.30 m
Moisture content:
17%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 17% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	15.799 mg/kg	0.00158 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.92 mg/kg	2.775	2.182 mg/kg	0.000218 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.739 mg/kg	0.000574 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	29.981 mg/kg	0.003 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.126	10.585 mg/kg	0.00106 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16 mg/kg	1.56	21.331 mg/kg	0.00137 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		20 mg/kg	1.579	27 mg/kg	0.0027 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		44 mg/kg	2.774	104.327 mg/kg	0.0104 %	✓	
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.1	mg/kg		0.0855	mg/kg	0.00000855 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.09	mg/kg		0.0769	mg/kg	0.00000769 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.15	mg/kg		0.128	mg/kg	0.0000128 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.06	mg/kg		0.0513	mg/kg	0.00000513 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.14	mg/kg		0.12	mg/kg	0.000012 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.24	mg/kg		0.205	mg/kg	0.0000205 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
29		naphthalene				0.46	mg/kg		0.393	mg/kg	0.0000393 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.13	mg/kg		0.111	mg/kg	0.0000111 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.27	mg/kg		0.231	mg/kg	0.0000231 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0226 %		

Key

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

Classification of sample: DS205[2]

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

Sample details

Sample name:
DS205[2]
Sample Depth:
2.20-2.40 m
Moisture content:
39%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 39% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	11.398	mg/kg	0.00114 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.66	mg/kg	2.775	1.318	mg/kg	0.000132 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		4.1	mg/kg	13.43	39.614	mg/kg	0.00396 %	✓	
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20	mg/kg	1.462	21.03	mg/kg	0.0021 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21	mg/kg	1.126	17.01	mg/kg	0.0017 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23	mg/kg	1.56	25.81	mg/kg	0.00165 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15	mg/kg	1.579	17.045	mg/kg	0.0017 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		77	mg/kg	2.774	153.676	mg/kg	0.0154 %	✓	
13		pH			PH		7.4	pH		7.4	pH	7.4 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					1.4	mg/kg	1.884	1.898	mg/kg	0.00019 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				700	mg/kg		503.597	mg/kg	0.0504 %	✓	
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.11	mg/kg		0.0791	mg/kg	0.00000791 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.14	mg/kg		0.101	mg/kg	0.0000101 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.46	mg/kg		0.331	mg/kg	0.0000331 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.1	mg/kg		0.0719	mg/kg	0.00000719 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.21	mg/kg		0.151	mg/kg	0.0000151 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0787 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0504%)

Classification of sample: DS206

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

Sample details

Sample name:
DS206
Sample Depth:
0.80-0.90 m
Moisture content:
12%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.7 mg/kg	1.32	10.256 mg/kg	0.00103 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.48 mg/kg	2.775	1.189 mg/kg	0.000119 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4 mg/kg	13.43	4.796 mg/kg	0.00048 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12 mg/kg	1.462	15.66 mg/kg	0.00157 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		7.1 mg/kg	1.126	7.137 mg/kg	0.000714 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	7.4 mg/kg	1.56	10.306 mg/kg	0.000661 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		11 mg/kg	1.579	15.513 mg/kg	0.00155 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		24 mg/kg	2.774	59.446 mg/kg	0.00594 %	✓	
13	pH			PH		7.9 pH		7.9 pH	7.9 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.55	mg/kg		0.491	mg/kg	0.0000491 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0137 %		

Key

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

Classification of sample: DS206[2]

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

Sample details

Sample name:
DS206[2]
Sample Depth:
1.60-1.70 m
Moisture content:
8.9%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 8.9% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.1	mg/kg	1.32	7.396	mg/kg	0.00074 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.3	mg/kg	2.775	0.765	mg/kg	0.0000765 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3	mg/kg	13.43	3.7	mg/kg	0.00037 %	✓	
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		7.5	mg/kg	1.462	10.066	mg/kg	0.00101 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5.3	mg/kg	1.126	5.48	mg/kg	0.000548 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	4.6	mg/kg	1.56	6.589	mg/kg	0.000422 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		7.1	mg/kg	1.579	10.298	mg/kg	0.00103 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		10	mg/kg	2.774	25.474	mg/kg	0.00255 %	✓	
13		pH			PH		7.4	pH		7.4	pH	7.4 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.52	mg/kg		0.478	mg/kg	0.0000478 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.00835 %		

Key

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

Classification of sample: DS206[3]

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

Sample details

Sample name:
DS206[3]
Sample Depth:
2.10-2.30 m
Moisture content:
28%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 28% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	17.536 mg/kg	0.00175 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78 mg/kg	2.775	1.691 mg/kg	0.000169 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.3 mg/kg	13.43	24.132 mg/kg	0.00241 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		19 mg/kg	1.462	21.695 mg/kg	0.00217 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.126	11.435 mg/kg	0.00114 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	20 mg/kg	1.56	24.372 mg/kg	0.00156 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		18 mg/kg	1.579	22.212 mg/kg	0.00222 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		50 mg/kg	2.774	108.365 mg/kg	0.0108 %	✓	
13	pH			PH		7.7 pH		7.7 pH	7.7 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				180	mg/kg		140.625	mg/kg	0.0141 %	✓	
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.12	mg/kg		0.0938	mg/kg	0.00000937 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.49	mg/kg		0.383	mg/kg	0.0000383 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.09	mg/kg		0.0703	mg/kg	0.00000703 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.12	mg/kg		0.0938	mg/kg	0.00000937 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0369 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0141%)

Classification of sample: DS208

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

Sample details

Sample name:
DS208
Sample Depth:
2.40-2.60 m
Moisture content:
12%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	●	confirm TPH has NOT arisen from diesel or petrol					☑					
2		benzene	601-020-00-8	200-753-7	71-43-2		<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
3	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
4		toluene	601-021-00-3	203-625-9	108-88-3		<5 mg/kg		<5 mg/kg	<0.0005 %		<**LOD**
									Total:	0.0015 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

Classification of sample: BH09

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

Sample details

Sample name:
BH09
Sample Depth:
0.30 m
Moisture content:
18%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 18% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	13.427 mg/kg	0.00134 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.86 mg/kg	2.775	2.023 mg/kg	0.000202 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.4 mg/kg	13.43	15.934 mg/kg	0.00159 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	27.249 mg/kg	0.00272 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.126	11.45 mg/kg	0.00114 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15 mg/kg	1.56	19.828 mg/kg	0.00127 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		17 mg/kg	1.579	22.756 mg/kg	0.00228 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		42 mg/kg	2.774	98.741 mg/kg	0.00987 %	✓	
13	pH			PH		8.1 pH		8.1 pH	8.1 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.44	mg/kg		0.373	mg/kg	0.0000373 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.022 %		

Key

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

Classification of sample: BH09[5]

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

Sample details

Sample name:
BH09[5]
Sample Depth:
7.90-8.00 m
Moisture content:
26%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 26% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	18.862 mg/kg	0.00189 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.75 mg/kg	2.775	1.652 mg/kg	0.000165 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		3.1 mg/kg	13.43	33.042 mg/kg	0.0033 %	✓	
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.8 mg/kg	1.285	0.816 mg/kg	0.0000635 %	✓	
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	27.839 mg/kg	0.00278 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		200 mg/kg	1.126	178.712 mg/kg	0.0179 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	54 mg/kg	1.56	66.849 mg/kg	0.00429 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		18 mg/kg	1.579	22.564 mg/kg	0.00226 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		150 mg/kg	2.774	330.256 mg/kg	0.033 %	✓	
13	pH			PH		7.9 pH		7.9 pH	7.9 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					1.2 mg/kg	1.884	1.794 mg/kg	0.000179 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				560	mg/kg		444.444	mg/kg	0.0444 %	✓	
				TPH									
16		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.111 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0444%)

Classification of sample: BH05A[3]

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

Sample details

Sample name:
BH05A[3]
Sample Depth:
2.60 m
Moisture content:
33%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 33% Dry Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	12.905	mg/kg	0.00129 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.71	mg/kg	2.775	1.482	mg/kg	0.000148 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.6	mg/kg	13.43	26.254	mg/kg	0.00263 %	✓	
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30	mg/kg	1.462	32.967	mg/kg	0.0033 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		130	mg/kg	1.126	110.049	mg/kg	0.011 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	31	mg/kg	1.56	36.357	mg/kg	0.00233 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		26	mg/kg	1.579	30.877	mg/kg	0.00309 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		360	mg/kg	2.774	750.897	mg/kg	0.0751 %	✓	
13		pH			PH		7.6	pH		7.6	pH	7.6 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				550	mg/kg		413.534	mg/kg	0.0414 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
20		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
21		anthracene				0.17	mg/kg		0.128	mg/kg	0.0000128 %	✓	
			204-371-1	120-12-7									
22		benzo[a]anthracene				0.37	mg/kg		0.278	mg/kg	0.0000278 %	✓	
		601-033-00-9	200-280-6	56-55-3									
23		benzo[a]pyrene; benzo[def]chrysene				0.34	mg/kg		0.256	mg/kg	0.0000256 %	✓	
		601-032-00-3	200-028-5	50-32-8									
24		benzo[b]fluoranthene				0.5	mg/kg		0.376	mg/kg	0.0000376 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25		benzo[ghi]perylene				0.24	mg/kg		0.18	mg/kg	0.000018 %	✓	
			205-883-8	191-24-2									
26		benzo[k]fluoranthene				0.16	mg/kg		0.12	mg/kg	0.000012 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		chrysene				0.44	mg/kg		0.331	mg/kg	0.0000331 %	✓	
		601-048-00-0	205-923-4	218-01-9									
28		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
29		fluoranthene				0.77	mg/kg		0.579	mg/kg	0.0000579 %	✓	
			205-912-4	206-44-0									
30		fluorene				0.11	mg/kg		0.0827	mg/kg	0.00000827 %	✓	
			201-695-5	86-73-7									
31		indeno[123-cd]pyrene				0.2	mg/kg		0.15	mg/kg	0.000015 %	✓	
			205-893-2	193-39-5									
32		naphthalene				0.37	mg/kg		0.278	mg/kg	0.0000278 %	✓	
		601-052-00-2	202-049-5	91-20-3									
33		phenanthrene				0.54	mg/kg		0.406	mg/kg	0.0000406 %	✓	
			201-581-5	85-01-8									
34		pyrene				0.76	mg/kg		0.571	mg/kg	0.0000571 %	✓	
			204-927-3	129-00-0									
35		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
36		polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
37		tetrachloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
38		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
39		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
40		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.145 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: BH05A[5]

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

Sample details

Sample name:
BH05A[5]
Sample Depth:
7.80-7.90 m
Moisture content:
16%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.2 mg/kg	1.32	8.195 mg/kg	0.00082 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.22 mg/kg	2.775	0.526 mg/kg	0.0000526 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.7 mg/kg	13.43	19.682 mg/kg	0.00197 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.1 mg/kg	1.462	11.466 mg/kg	0.00115 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.126	10.677 mg/kg	0.00107 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23 mg/kg	1.56	30.927 mg/kg	0.00198 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		6.4 mg/kg	1.579	8.714 mg/kg	0.000871 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		190 mg/kg	2.774	454.386 mg/kg	0.0454 %	✓	
13	pH			PH		8.2 pH		8.2 pH	8.2 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5											
15	●	TPH (C6 to C40) petroleum group			TPH		240	mg/kg		206.897	mg/kg	0.0207 %	✓	
16	●	acenaphthene		201-469-6	83-32-9		0.52	mg/kg		0.448	mg/kg	0.0000448 %	✓	
17	●	acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
18	●	anthracene		204-371-1	120-12-7		1.4	mg/kg		1.207	mg/kg	0.000121 %	✓	
19		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		4.3	mg/kg		3.707	mg/kg	0.000371 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		4.3	mg/kg		3.707	mg/kg	0.000371 %	✓	
21		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		5.1	mg/kg		4.397	mg/kg	0.00044 %	✓	
22	●	benzo[ghi]perylene		205-883-8	191-24-2		2.5	mg/kg		2.155	mg/kg	0.000216 %	✓	
23		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.3	mg/kg		1.121	mg/kg	0.000112 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		3.6	mg/kg		3.103	mg/kg	0.00031 %	✓	
25		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.46	mg/kg		0.397	mg/kg	0.0000397 %	✓	
26	●	fluoranthene		205-912-4	206-44-0		12	mg/kg		10.345	mg/kg	0.00103 %	✓	
27	●	fluorene		201-695-5	86-73-7		0.49	mg/kg		0.422	mg/kg	0.0000422 %	✓	
28	●	indeno[123-cd]pyrene		205-893-2	193-39-5		2.1	mg/kg		1.81	mg/kg	0.000181 %	✓	
29		naphthalene	601-052-00-2	202-049-5	91-20-3		0.44	mg/kg		0.379	mg/kg	0.0000379 %	✓	
30	●	phenanthrene		201-581-5	85-01-8		4.8	mg/kg		4.138	mg/kg	0.000414 %	✓	
31	●	pyrene		204-927-3	129-00-0		10	mg/kg		8.621	mg/kg	0.000862 %	✓	
32		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
											Total:	0.0791 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0207%)

Classification of sample: BH05A[6]

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

Sample details

Sample name:
BH05A[6]
Sample Depth:
9.50-9.60 m
Moisture content:
18%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 18% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	15.665 mg/kg	0.00157 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.587 mg/kg	0.000259 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.3 mg/kg	13.43	14.796 mg/kg	0.00148 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	33.442 mg/kg	0.00334 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	14.312 mg/kg	0.00143 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14 mg/kg	1.56	18.506 mg/kg	0.00119 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		23 mg/kg	1.579	30.787 mg/kg	0.00308 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		58 mg/kg	2.774	136.356 mg/kg	0.0136 %	✓	
13	pH			PH		7.4 pH		7.4 pH	7.4 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
27	●	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
29		naphthalene				0.41	mg/kg		0.347	mg/kg	0.0000347 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
31	●	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0276 %		

Key

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

Classification of sample: BH04A

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

Sample details

Sample name:
BH04A
Sample Depth:
3.00-3.10 m
Moisture content:
25%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 25% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	20.069 mg/kg	0.00201 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.442 mg/kg	0.000244 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.9 mg/kg	13.43	20.414 mg/kg	0.00204 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		35 mg/kg	1.462	40.924 mg/kg	0.00409 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.126	33.326 mg/kg	0.00333 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	57 mg/kg	1.56	71.128 mg/kg	0.00456 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		43 mg/kg	1.579	54.335 mg/kg	0.00543 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		250 mg/kg	2.774	554.829 mg/kg	0.0555 %	✓	
13	pH			PH		8.6 pH		8.6 pH	8.6 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				670	mg/kg		536	mg/kg	0.0536 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17	●	ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19	●	acenaphthene				1.9	mg/kg		1.52	mg/kg	0.000152 %	✓	
			201-469-6	83-32-9									
20	●	acenaphthylene				0.16	mg/kg		0.128	mg/kg	0.0000128 %	✓	
			205-917-1	208-96-8									
21	●	anthracene				6.9	mg/kg		5.52	mg/kg	0.000552 %	✓	
			204-371-1	120-12-7									
22		benzo[a]anthracene				10	mg/kg		8	mg/kg	0.0008 %	✓	
		601-033-00-9	200-280-6	56-55-3									
23		benzo[a]pyrene; benzo[def]chrysene				8.1	mg/kg		6.48	mg/kg	0.000648 %	✓	
		601-032-00-3	200-028-5	50-32-8									
24		benzo[b]fluoranthene				10	mg/kg		8	mg/kg	0.0008 %	✓	
		601-034-00-4	205-911-9	205-99-2									
25	●	benzo[ghi]perylene				3.9	mg/kg		3.12	mg/kg	0.000312 %	✓	
			205-883-8	191-24-2									
26		benzo[k]fluoranthene				2.7	mg/kg		2.16	mg/kg	0.000216 %	✓	
		601-036-00-5	205-916-6	207-08-9									
27		chrysene				7.7	mg/kg		6.16	mg/kg	0.000616 %	✓	
		601-048-00-0	205-923-4	218-01-9									
28		dibenz[a,h]anthracene				1	mg/kg		0.8	mg/kg	0.00008 %	✓	
		601-041-00-2	200-181-8	53-70-3									
29	●	fluoranthene				23	mg/kg		18.4	mg/kg	0.00184 %	✓	
			205-912-4	206-44-0									
30	●	fluorene				2.3	mg/kg		1.84	mg/kg	0.000184 %	✓	
			201-695-5	86-73-7									
31	●	indeno[123-cd]pyrene				3.8	mg/kg		3.04	mg/kg	0.000304 %	✓	
			205-893-2	193-39-5									
32		naphthalene				0.67	mg/kg		0.536	mg/kg	0.0000536 %	✓	
		601-052-00-2	202-049-5	91-20-3									
33	●	phenanthrene				15	mg/kg		12	mg/kg	0.0012 %	✓	
			201-581-5	85-01-8									
34	●	pyrene				19	mg/kg		15.2	mg/kg	0.00152 %	✓	
			204-927-3	129-00-0									
35		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.142 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0536%)

Classification of sample: BH04A[3]

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

Sample details

Sample name:
BH04A[3]
Sample Depth:
6.50-6.60 m
Moisture content:
34%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 34% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	15.765 mg/kg	0.00158 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.97 mg/kg	2.775	2.009 mg/kg	0.000201 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		4.5 mg/kg	13.43	45.101 mg/kg	0.00451 %	✓	
5	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 %		<**LOD**
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		34 mg/kg	1.462	37.084 mg/kg	0.00371 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41 mg/kg	1.126	34.449 mg/kg	0.00344 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	70 mg/kg	1.56	81.483 mg/kg	0.00522 %	✓	
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 %		<**LOD**
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		37 mg/kg	1.579	43.613 mg/kg	0.00436 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<**LOD**
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		160 mg/kg	2.774	331.241 mg/kg	0.0331 %	✓	
13	pH			PH		8.4 pH		8.4 pH	8.4 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					2.2 mg/kg	1.884	3.093 mg/kg	0.000309 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5											
15		TPH (C6 to C40) petroleum group			TPH		120	mg/kg		89.552	mg/kg	0.00896 %	✓	
16		benzene	601-020-00-8	200-753-7	71-43-2		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
17		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
18		toluene	601-021-00-3	203-625-9	108-88-3		<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
19		acenaphthene		201-469-6	83-32-9		0.09	mg/kg		0.0672	mg/kg	0.00000672 %	✓	
20		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		anthracene		204-371-1	120-12-7		0.09	mg/kg		0.0672	mg/kg	0.00000672 %	✓	
22		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
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 %		<LOD
24		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
28		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
29		fluoranthene		205-912-4	206-44-0		0.61	mg/kg		0.455	mg/kg	0.0000455 %	✓	
30		fluorene		201-695-5	86-73-7		0.06	mg/kg		0.0448	mg/kg	0.00000448 %	✓	
31		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
32		naphthalene	601-052-00-2	202-049-5	91-20-3		0.71	mg/kg		0.53	mg/kg	0.000053 %	✓	
33		phenanthrene		201-581-5	85-01-8		0.32	mg/kg		0.239	mg/kg	0.0000239 %	✓	
34		pyrene		204-927-3	129-00-0		0.58	mg/kg		0.433	mg/kg	0.0000433 %	✓	
35		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
36		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
											Total:	0.0674 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00896%)

Classification of sample: BH01[2]

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

Sample details

Sample name:
BH01[2]
Sample Depth:
3.80-3.90 m
Moisture content:
29%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 29% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.8 mg/kg	1.32	10.03 mg/kg	0.001 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.6 mg/kg	2.775	1.291 mg/kg	0.000129 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.5 mg/kg	13.43	15.616 mg/kg	0.00156 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	22.66 mg/kg	0.00227 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	13.092 mg/kg	0.00131 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	38 mg/kg	1.56	45.948 mg/kg	0.00295 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15 mg/kg	1.579	18.366 mg/kg	0.00184 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		290 mg/kg	2.774	623.645 mg/kg	0.0624 %	✓	
13	pH			PH		7.8 pH		7.8 pH	7.8 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				130	mg/kg		100.775	mg/kg	0.0101 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17	●	ethylbenzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19	●	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
20	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
21	●	anthracene				0.08	mg/kg		0.062	mg/kg	0.0000062 %	✓	
			204-371-1	120-12-7									
22		benzo[a]anthracene				0.39	mg/kg		0.302	mg/kg	0.0000302 %	✓	
		601-033-00-9	200-280-6	56-55-3									
23	●	benzo[ghi]perylene				0.21	mg/kg		0.163	mg/kg	0.0000163 %	✓	
			205-883-8	191-24-2									
24		chrysene				0.43	mg/kg		0.333	mg/kg	0.0000333 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				0.95	mg/kg		0.736	mg/kg	0.0000736 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				0.11	mg/kg		0.0853	mg/kg	0.00000853 %	✓	
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				0.2	mg/kg		0.155	mg/kg	0.0000155 %	✓	
			205-893-2	193-39-5									
29		naphthalene				0.59	mg/kg		0.457	mg/kg	0.0000457 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.51	mg/kg		0.395	mg/kg	0.0000395 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				0.78	mg/kg		0.605	mg/kg	0.0000605 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0858 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0101%)

Classification of sample: BH08

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

Sample details

Sample name:
BH08
Sample Depth:
0.90-1.00 m
Moisture content:
13%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	16.358 mg/kg	0.00164 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.2 mg/kg	2.775	2.947 mg/kg	0.000295 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.942 mg/kg	0.000594 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29 mg/kg	1.462	37.509 mg/kg	0.00375 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.126	13.949 mg/kg	0.00139 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16 mg/kg	1.56	22.086 mg/kg	0.00142 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		23 mg/kg	1.579	32.149 mg/kg	0.00321 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		51 mg/kg	2.774	125.205 mg/kg	0.0125 %	✓	
13	pH			PH		8 pH		8 pH	8pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
16		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-469-6	83-32-9									
17		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-917-1	208-96-8									
18		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-371-1	120-12-7									
19		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
22		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
26		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
27		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
28		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
29		naphthalene				0.58	mg/kg		0.513	mg/kg	0.0000513 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
31		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0264 %		

Key

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

Classification of sample: BH08[2]

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

Sample details

Sample name:
BH08[2]
Sample Depth:
2.40-2.50 m
Moisture content:
23%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 23% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	17.175 mg/kg	0.00172 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.86 mg/kg	2.775	1.94 mg/kg	0.000194 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.6 mg/kg	13.43	17.47 mg/kg	0.00175 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	30.895 mg/kg	0.00309 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	15.561 mg/kg	0.00156 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21 mg/kg	1.56	26.631 mg/kg	0.00171 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		20 mg/kg	1.579	25.683 mg/kg	0.00257 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		53 mg/kg	2.774	119.536 mg/kg	0.012 %	✓	
13	pH			PH		8.4 pH		8.4 pH	8.4 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5											
15	●	TPH (C6 to C40) petroleum group			TPH		45	mg/kg		36.585	mg/kg	0.00366 %	✓	
16	●	acenaphthene		201-469-6	83-32-9		0.06	mg/kg		0.0488	mg/kg	0.00000488 %	✓	
17	●	acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		**<LOD**
18	●	anthracene		204-371-1	120-12-7		0.2	mg/kg		0.163	mg/kg	0.0000163 %	✓	
19		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.96	mg/kg		0.78	mg/kg	0.000078 %	✓	
20		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.84	mg/kg		0.683	mg/kg	0.0000683 %	✓	
21		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.1	mg/kg		0.894	mg/kg	0.0000894 %	✓	
22	●	benzo[ghi]perylene		205-883-8	191-24-2		0.45	mg/kg		0.366	mg/kg	0.0000366 %	✓	
23		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.37	mg/kg		0.301	mg/kg	0.0000301 %	✓	
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.73	mg/kg		0.593	mg/kg	0.0000593 %	✓	
25		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.09	mg/kg		0.0732	mg/kg	0.00000732 %	✓	
26	●	fluoranthene		205-912-4	206-44-0		1.7	mg/kg		1.382	mg/kg	0.000138 %	✓	
27	●	fluorene		201-695-5	86-73-7		0.07	mg/kg		0.0569	mg/kg	0.00000569 %	✓	
28	●	indeno[123-cd]pyrene		205-893-2	193-39-5		0.41	mg/kg		0.333	mg/kg	0.0000333 %	✓	
29		naphthalene	601-052-00-2	202-049-5	91-20-3		0.18	mg/kg		0.146	mg/kg	0.0000146 %	✓	
30	●	phenanthrene		201-581-5	85-01-8		0.73	mg/kg		0.593	mg/kg	0.0000593 %	✓	
31	●	pyrene		204-927-3	129-00-0		1.4	mg/kg		1.138	mg/kg	0.000114 %	✓	
32		phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		**<LOD**
33		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
34		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
35		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
36		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<5	mg/kg		<5	mg/kg	<0.0005 %		**<LOD**
											Total:	0.0314 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00366%)

Classification of sample: BH02

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

Sample details

Sample name:
BH02
Sample Depth:
0.40-0.50 m
Moisture content:
11%
(dry weight correction)

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

Hazard properties

None identified

Determinands

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

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		confirm TPH has NOT arisen from diesel or petrol					☑							
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	21.411	mg/kg	0.00214 %	✓	
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.89	mg/kg	2.775	2.225	mg/kg	0.000223 %	✓	
4		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5	mg/kg	13.43	6.05	mg/kg	0.000605 %	✓	
5		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 %		<**LOD**
6		chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28	mg/kg	1.462	36.868	mg/kg	0.00369 %	✓	
7		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.126	11.157	mg/kg	0.00112 %	✓	
8		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	26	mg/kg	1.56	36.536	mg/kg	0.00234 %	✓	
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 %		<**LOD**
10		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		20	mg/kg	1.579	28.459	mg/kg	0.00285 %	✓	
11		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
12		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		46	mg/kg	2.774	114.965	mg/kg	0.0115 %	✓	
13		pH			PH		7.9	pH		7.9	pH	7.9 pH		
14		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
16	●	acenaphthene				0.11	mg/kg		0.0991	mg/kg	0.00000991 %	✓	
			201-469-6	83-32-9									
17	●	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
18	●	anthracene				0.14	mg/kg		0.126	mg/kg	0.0000126 %	✓	
			204-371-1	120-12-7									
19		benzo[a]anthracene				0.72	mg/kg		0.649	mg/kg	0.0000649 %	✓	
		601-033-00-9	200-280-6	56-55-3									
20		benzo[a]pyrene; benzo[def]chrysene				0.78	mg/kg		0.703	mg/kg	0.0000703 %	✓	
		601-032-00-3	200-028-5	50-32-8									
21		benzo[b]fluoranthene				0.84	mg/kg		0.757	mg/kg	0.0000757 %	✓	
		601-034-00-4	205-911-9	205-99-2									
22	●	benzo[ghi]perylene				0.45	mg/kg		0.405	mg/kg	0.0000405 %	✓	
			205-883-8	191-24-2									
23		benzo[k]fluoranthene				0.44	mg/kg		0.396	mg/kg	0.0000396 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		chrysene				0.7	mg/kg		0.631	mg/kg	0.0000631 %	✓	
		601-048-00-0	205-923-4	218-01-9									
25		dibenz[a,h]anthracene				0.09	mg/kg		0.0811	mg/kg	0.00000811 %	✓	
		601-041-00-2	200-181-8	53-70-3									
26	●	fluoranthene				1.5	mg/kg		1.351	mg/kg	0.000135 %	✓	
			205-912-4	206-44-0									
27	●	fluorene				0.07	mg/kg		0.0631	mg/kg	0.00000631 %	✓	
			201-695-5	86-73-7									
28	●	indeno[123-cd]pyrene				0.39	mg/kg		0.351	mg/kg	0.0000351 %	✓	
			205-893-2	193-39-5									
29		naphthalene				0.13	mg/kg		0.117	mg/kg	0.0000117 %	✓	
		601-052-00-2	202-049-5	91-20-3									
30	●	phenanthrene				0.61	mg/kg		0.55	mg/kg	0.000055 %	✓	
			201-581-5	85-01-8									
31	●	pyrene				1.4	mg/kg		1.261	mg/kg	0.000126 %	✓	
			204-927-3	129-00-0									
32		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0267 %		

Key

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

Classification of sample: BH02[3]

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

Sample details

Sample name:
BH02[3]
Sample Depth:
3.40-3.50 m
Moisture content:
34%
(dry weight correction)

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

Hazard properties

None identified

Determinands

Moisture content: 34% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	confirm TPH has NOT arisen from diesel or petrol					☑					
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	21.677 mg/kg	0.00217 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.77 mg/kg	2.775	1.595 mg/kg	0.000159 %	✓	
4	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		2.7 mg/kg	13.43	27.06 mg/kg	0.00271 %	✓	
5	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 %		<LOD
6	chromium { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26 mg/kg	1.462	28.359 mg/kg	0.00284 %	✓	
7	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.126	12.603 mg/kg	0.00126 %	✓	
8	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	36 mg/kg	1.56	41.905 mg/kg	0.00269 %	✓	
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 %		<LOD
10	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		21 mg/kg	1.579	24.753 mg/kg	0.00248 %	✓	
11	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
12	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		82 mg/kg	2.774	169.761 mg/kg	0.017 %	✓	
13	pH			PH		8.4 pH		8.4 pH	8.4 pH		
14	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
15	●	TPH (C6 to C40) petroleum group				220	mg/kg		164.179	mg/kg	0.0164 %	✓	
				TPH									
16		benzene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17	●	ethylbenzene				48	mg/kg		35.821	mg/kg	0.00358 %	✓	
		601-023-00-4	202-849-4	100-41-4									
18		toluene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		phenol				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20	●	polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
21		tetrachloroethylene				190	mg/kg		141.791	mg/kg	0.0142 %	✓	
		602-028-00-4	204-825-9	127-18-4									
22		carbon tetrachloride; tetrachloromethane				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
23		trichloroethylene; trichloroethene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
24		vinyl chloride; chloroethylene				<5	mg/kg		<5	mg/kg	<0.0005 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
										Total:	0.0684 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No significant volatile contamination identified.

Hazard Statements hit:

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

Because of determinand:

ethylbenzene: (conc.: 0.00358%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0164%)

Appendix A: Classifier defined and non GB MCL determinands

confirm TPH has NOT arisen from diesel or petrol

Description/Comments: Chapter 3, section 4b requires a positive confirmation for benzo[a]pyrene to be used as a marker in evaluating Carc. 1B; H350 (HP 7) and Muta. 1B; H340 (HP 11)
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Hazard Statements: EUH014 , Acute Tox. 2; H330 , Acute Tox. 2; H300 , Skin Corr. 1A; H314 , Skin Corr. 1B; H314

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

pH (CAS Number: PH)

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

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

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

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

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

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

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

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

- **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

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

GB MCL index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans; POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

- **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

- **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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on risk phrases

beryllium {beryllium oxide}

Worst case species based on risk phrases

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

Worst case species based on risk phrases

cadmium {cadmium sulfide}

Worst case species based on risk phrases

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

All chromium VI concentrations are below the lab LoD.

copper {dicopper oxide; copper (I) oxide}

Most likely common species

lead {lead chromate}

Worst case species based on risk phrases

mercury {mercury dichloride}

Worst case species based on risk phrases

nickel {nickel dihydroxide}

Worst case species based on risk phrases

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

Worst case species based on risk phrases

zinc {zinc chromate}

Worst case species based on risk phrases

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

Worst case species

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2023.25.5511.10206 (25 Jan 2023)
HazWasteOnline Database: 2023.25.5511.10206 (25 Jan 2023)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021

Appendix 11 : CIRIA Risk Classification Scheme

BWB RISK ASSESSMENT CLASSIFICATION (REFERENCE CIRIA C552, *CONTAMINATED LAND RISK ASSESSMENT: A GUIDE TO GOOD PRACTICE*, 2001)

CIRIA C552, *Contaminated Land Risk Assessment A Guide to Good Practice*, 2001 sets out a methodology for estimating risk. The methodology for risk evaluation is a qualitative method for interpreting the output for the risk estimation stage of the assessment. It involves the classification of the:

- Magnitude of the potential consequence (severity) of risk occurring; and
- Magnitude of the probability (likelihood) of the risk occurring.

The classification of consequence and probability are replicated in **Table 1** and **Table 2**, respectively.

Table 1: Classification of Consequence

Classification	Definition	Examples
Severe (Sv)	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short term risk of pollution of sensitive water resource. Catastrophic damage to buildings/ property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium (Md)	Chronic damage to Human Health ("significant harm"). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem.	Concentrations of a contaminant from site exceeding the generic or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of species within a designated nature reserve.
Mild (Mi)	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor (Mr)	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by measures such as protective clothing etc.). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentration that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

The classification of consequence does not take into account the probability of the consequence being realised. Therefore, there may be more than one consequence for a particular pollutant linkage. Both a severe and medium classification can result in death.

Severe relates to short term (acute) risk while medium relates to long term (chronic) risk. Mild relates to significant harm but to less sensitive receptors. Minor classification relates to harm which is not significant but could have a financial cost.

Table 2: Classification of Probability

Classification	Definition
High likelihood (Hi)	There is a pollutant linkage and an event that either appears very likely in the short term and almost inevitable in the long term, or there is evidence at the receptor of harm or pollution.
Likely (Li)	There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood (Lw)	There is a pollutant 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 (Ul)	There is a pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

The classification gives a guide as to the severity and consequence of identified risk when compared with other risk presented on the site. It should be noted that if a risk is identified it cannot be classified as "no risk" but as "very low risk". Differing stakeholders may have a different view on the acceptability of a risk.

Once the consequence and probability have been classified these can be compared using a matrix to identify an overall risk category, as shown in **Table 3**. These categories and the actions required are categorised in **Table 4**.

Table 3: Risk Evaluation Matrix

	Consequence	Severe (Sv)	Medium (Md)	Mild (Mi)	Minor (Mr)
Probability	**High likelihood (Hi)**	Very High Risk (VH)	High Risk (H)	Moderate Risk (M)	Mod/Low Risk (M/L)
	Likely (Li)	High Risk (H)	Moderate Risk (M)	Mod/Low Risk (M/L)	Low Risk (L)
	Low likelihood (Lw)	Moderate Risk (M)	Mod/Low Risk (M/L)	Low Risk (L)	Very Low Risk (VL)
	Unlikely (Ul)	Mod/Low Risk (M/L)	Low Risk (L)	Very Low Risk (VL)	Very Low Risk (VL)

Table 4: Risk Categorisations

Very High Risk (VH)	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. 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.
High Risk (H)	Harm is likely to arise to a designated receptor from an identified hazard. 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.
Moderate Risk (M)	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. 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.
Low Risk (L)	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.
Very Low Risk (VL)	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.

Reference:

CIRIA C552 *Contaminated land risk assessment. A guide to good practice*. Rudland, D J, Lancefield, R M, Mayell, P N, 2001.

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