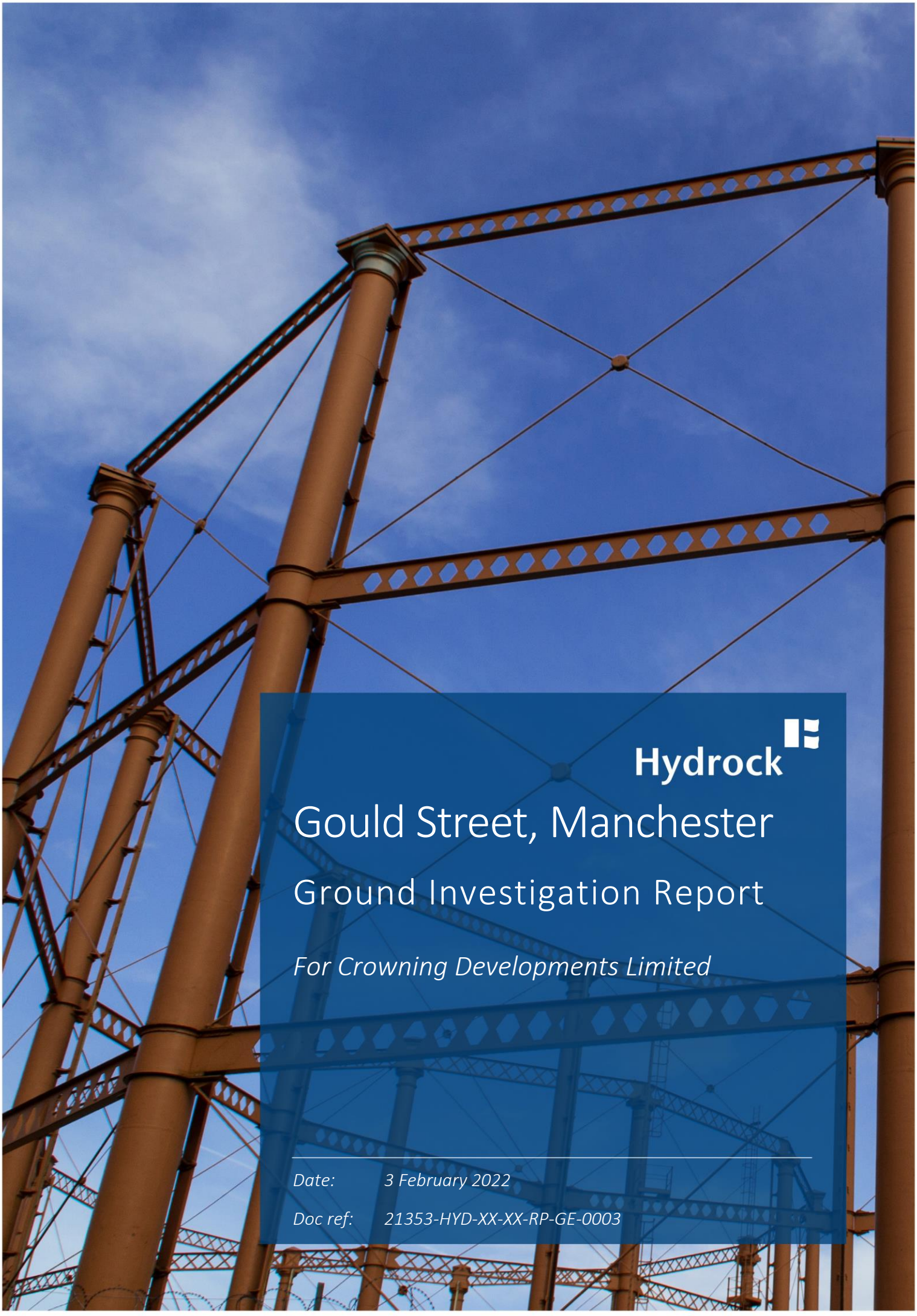


Hydrock

Gould Street, Manchester

Ground Investigation Report

For Crowning Developments Limited

Date: *3 February 2022*

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Executive Summary

SITE INFORMATION AND SETTING	
Objectives	Ground Investigation Report
Client	Crowning Developments Limited
Site name and location	Gould Street, Manchester, M4 4AP.
Proposed development	Hydrock understands that the proposed development across phase 1 and 2 is to comprise four seven-storey apartment buildings with associated access, car parking, soft landscaping areas and retaining structures
GROUND MODEL	
Desk study summary	The site comprises of a former car park, including access and parking across the north west and northern boundary of the site. Across the centre of the site there is a large concrete slab formerly housing a call centre. In the east of the site there is a compound with a radio mast, a pigging compound with above ground gas infrastructure and small open sheltered storage areas adjacent to the eastern boundary. There is an electricity substation and gas infrastructure building in the west and two other small buildings including an office and welfare area formerly used by the car park attendants. The current buildings appear to have used potentially asbestos containing building materials in their construction. Review of historical Ordnance Survey mapping indicates: • Between the 1820s to late 1960s the site formed part of a large gas works until closure and demolition of much of the infrastructure. During the period of gas work activity, phase 1 included retort housing, a workshop, smithy, garage, railway sidings, liquor plant, coke feeders and washers, benzole plant and various tanks. Phase 2 included conveyors and retort housing. • From 1982 a depot with an associated fuel island including pumps and tanks is recorded across phase 1 and phase 2. • Transco records from 1998 show an electrical substation is constructed to the west of the depot. • It is understood that post 2000 the depot became a call centre until its demolition to slab level. A non-specialist UXO assessment indicates a moderate bomb risk. The superficial geology comprises Glacial Till (Devensian) which is recorded as sandy gravelly clay. The solid geology comprises Chester Formation, comprising red-brown, yellow, or yellow-mottled, very fine- to coarse-grained sandstones that are commonly cross-bedded, locally micaceous, silty or argillaceous, pebbly or conglomeratic, and generally friable. The Glacial Till is classed by the Environment Agency as a Secondary (Undifferentiated) Aquifer and the Chester Formation is classified as a Principal Aquifer. The primary natural drainage feature is the River Irk 250m to the west and Rochdale Canal present 670m south east of the site. The River Irk is flowing north east to south west discharging into the River Irwell 800m south west of the site.
Ground and groundwater conditions encountered by investigation	The ground conditions as proven by the investigations undertaken at the site comprise: • Surface Cover-Concrete Hardstanding between 0.00m and 0.25m below ground level (bgl), comprising light grey reinforced concrete. • Surface Asphalt Hardstanding between 0.00m and 0.25m bgl, comprising black asphalt.

	• Topsoil locally north west and west between 0.00m and 0.30m bgl, comprising very soft dark brown sandy gravelly clay with rare rootlets. • Buried Concrete top encountered at 0.65m and as deep as 3.00m bgl. • Buried Bituminous Material (locally east) between 1.15m and 1.30m bgl. • Made Ground – between 0.00m and 5.00m bgl, comprising sandy silty or clayey locally ashy gravel, sandy gravelly clay or locally clayey silty locally ashy sand. Gravel content of comprised sandstone, limestone, brick, coal, concrete, clinker, slag, granite, slate, bitumen and quartzite. Man-made constituents were encountered within the Made Ground consisting of wire, floor tile, plastic, timber, glass and metal. • Glacial Till top encountered at 0.70m and 5.00m bgl up to 10.76m thickness, comprising a very stiff to stiff, very high to high strength dark brown slightly sandy to sandy slightly gravelly to gravelly clay with a gravel content of mudstone, sandstone and siltstone. • Weathered Chester Formation top encountered between 9.80m and 16.10m bgl up to 4.65m thickness, comprising dense reddish orange gravelly to very gravelly silty sand or a dense light grey/light brown or reddish orange sandy clayey gravel. The gravel content comprised of sandstone, quartzite and quartz. • Chester Formation was encountered underlying the weathered Chester Formation between 16.10m and 19.25m bgl. weak to medium strong reddish orange medium to coarse sandstone or an extremely weak reddish orange medium to coarse sandstone. Shallow groundwater was encountered at depths between 0.65m bgl and 1.20m bgl during the investigation. Deeper groundwater was encountered at depths between 9.00m up to 19.40m bgl during the investigation. Water levels recorded post-fieldwork ranged from 1.42m bgl to 19.62m bgl (26.45m OD to 44.59m OD). In general, there are localised and discontinuous perched waters present within the Made Ground sat either on clayey layers or at the interface with the Glacial Till between 1.46m and 3.37m bgl. There are also localised and discontinuous perched waters under a sub artesian pressure within bands of sand in the Glacial Till between 4.18m and 6.67m bgl and deeper perched waters at 9.87m and 12.06m bgl. The monitoring visits undertaken show groundwater within the deeper Chester Formation to be flowing from south/south west to north east towards the River Irk from 19.64m to 19.29m bgl. There is visual and olfactory evidence of petroleum hydrocarbon contamination encountered within the soils. There were sweet odours recorded within the Made Ground coupled with elevated PID readings above background of 20ppm, suggestive of VOC impact to the Made Ground. Shallow perched waters locally in the south east of the site were found to be oily with a very weak hydrocarbon odour.
GEOTECHNICAL CONCLUSIONS	
Conclusions of geotechnical assessment	Buried obstructions were encountered during this investigation associated with foundations of old buildings, tanks, services etc., and there is a possibility of further such obstructions being encountered. Topsoil should be removed from beneath all building and hardstanding areas. Excavation to proposed founding depth generally should be readily achievable with standard excavation plant. Heavy duty excavation plant/breaking equipment may be required to excavate the existing construction. Significant collapse of trial pit faces was noted during trial pit excavation. This was noted particularly in the granular Made Ground. Random and sudden falls should be expected from the faces of near vertically sided excavations put down at the site. Based on site observations, the rate of water ingress to the proposed excavations is likely to be slow. In these circumstances, groundwater control by sump pumping is likely to be sufficient.

	Foundations are recommended to comprise: • Piled foundations. Suspended slab because of the depth of Made Ground and the presence of medium shrinkage potential clay soils. A design CBR of 3 % is recommended. Soakaway drainage is considered unsuitable for this site. Design Sulphate Class - DS-4 and ACEC Class AC-4 within Made Ground, DS-1 and ACEC Class AC-1 classification for Glacial Till, Weathered Chester Formation and Chester Formation
GEO-ENVIRONMENTAL CONCLUSIONS	
Conclusions of contamination Generic risk assessment	Human health: • Pervasive arsenic and PAH in the Made Ground. • Asbestos fibres and suspected asbestos containing materials in the Made Ground. • Petroleum Hydrocarbons and visual evidence and odours in the Made Ground. • Presence of benzene, 1-2-4-Trimethylbenzene and concentrations of SVOCs in the Made Ground. • Styrene hotspot present within WS704 at 1.20m bgl. • Buried bituminous layer contains significant benzo(a)pyrene indictive of coal tar presence. Plant growth: • Marginally elevated boron within the topsoil. Controlled Waters: • Presence of elevated Hydrocarbon, Ammonium, Total Cyanide within deeper groundwater in BH301 close to the boundary of phases 1 and 3, plume appearing to migrate into the north west of phase 1. Ground gases or vapours: • Site is provisionally classified as CS2 due to the vapour risk posed by VOCs and hydrocarbons within the Made Ground. Subject to completion of ongoing monitoring. • Multiple occurrences of elevated PID readings within the Made Ground indicative of the presence of volatile contamination. • Risk from VOC and hydrocarbon vapours from Made Ground remaining following enabling works. Radon: • The site is not in a Radon Affected Area. Water supply pipes: • The site is brownfield and at the depth of a proposed water pipeline between 0.75m and 1.35m bgl elevated levels of organic contamination (petroleum hydrocarbon aliphatic and aromatic EC >16-40, BTEX and MTBE) have been identified in exceedance of the threshold values and Hydrock believes barrier pipe is required. However, confirmation should be sought from the water supply company at the earliest opportunity.
Proposed mitigation measures	The mitigation measures proposed to remove unacceptable risks include: • The excavation and material management of the Made Ground containing petroleum hydrocarbons or visual or olfactory evidence of contamination. • Targeted delineation and excavation of Made Ground present in WS704 at 1.20m and placement either below hardstanding outside of the building footprint or behind the retaining walls if geotechnically suitable. • Examination of Made Ground soils in the vicinity of MPBH07a, hand picking of any visual suspected cement type asbestos and disposal offsite via a licensed waste contractor. • The installation of a 450mm cover system in landscaped areas, comprising a high visibility geomembrane, subsoil and a minimum of 150mm of topsoil. • Installation of Protectaline pipework.

	• Installation of VOC vapour membrane in buildings. The methodology for the remediation should be presented in a Remediation Strategy, which will need to be submitted to the warranty provider and the regulatory authorities for approval. In addition, the production of a Materials Management Plan and its approval by a Qualified Person will be required to allow the reuse of suitable materials at the site. A verification report compiled by a competent independent geo-environmental specialist will be required following completion of any remedial works.
Waste management	Excavated soils to be disposed of as waste, are likely to be classed as predominantly non-hazardous with some hazardous.
FUTURE CONSIDERATIONS	
Further work	Following the ground investigation works undertaken to date, the following further works will be required: • demolition asbestos survey of existing structures; • obtain an updated CON29M report from the coal authority and confirm the conclusions of this report; • Undertaking an additional two boreholes in the east of the site to complete detailed design of the piling. An additional borehole would also be beneficial along the NW side of the proposed westernmost apartment building. • discussion with specialists with regard to the invasive species: horsetail; • specialist UXO/UXB risk assessment in accordance with CIRIA Report C681 with regard to construction risk; • completion and reporting of the ongoing gas monitoring, hence the conclusions in this report are provisional, subject to the completion of monitoring; • supplementary ground investigation and assessment in accordance with ADEPT & CWF Guidance (August 2019) to fully assess potential bituminous bound pavement arisings with regards to the presence of coal tar and waste disposal; • discussion and agreement with utility providers regarding the materials suitable for pipework; • discussions with regulatory bodies and the warranty provider regarding the conclusions of this report; • completion of further detailed risk assessment relating to groundwater to assess the risk to controlled waters posed specifically by Ammonium, Hydrocarbons, Total Cyanide and Thiocyanate; • discussions with piling contractors regarding the conclusions of this report and the design of the piles; • provision of geotechnical design for the Category 2 structures (earthworks, retaining, floor slabs, foundations); • production of a Remediation Strategy and Verification Plan (and agreement with the regulatory bodies and the warranty provider); • production of a Materials Management Plan relating to reuse of soils at the site and import of soils to the site; • remediation and mitigation work; and • verification of the earthworks, remediation and mitigation works.

This Executive Summary forms part of Hydrock Consultants Limited report number 21353-HYD-XX-XX-RP-GE-0003 and should not be used as a separate document.

1. INTRODUCTION

1.1 Terms of reference

In October 2021, Hydrock Consultants Limited (Hydrock) was commissioned by Crowning Developments Limited (the client) to undertake a ground investigation at Gould Street, Manchester, M4 4AP.

The site comprises of a former car park, including access and parking across the north west and northern boundary of the site. Across the centre of the site there is a large concrete slab formerly housing a call centre.

In the east of the site there is a compound with a radio mast, a pigging compound with above ground gas infrastructure and small open sheltered storage areas adjacent to the eastern boundary.

There is an electricity substation and gas infrastructure building in the west and two other small buildings including an office and welfare area formerly used by the car park attendants.

Landscaping is present in the south west corner. Semi mature and matures trees are present in the south west and adjacent to the arches and catacombs which are present along the southern boundary.

Hydrock understands that the proposed development across phase 1 and 2 is to comprise four seven-storey apartment buildings with associated access, car parking, soft landscaping areas and retaining features. A proposed development layout (AHR Architects Limited, Drawing GDS-AHR-SO-30-DR-A-PL-012_S0_P02), is presented in Appendix A.

The works have been undertaken in accordance with Hydrock's proposal referenced (21353-GNMA-FP-0002, dated 8th October 2021) and the Client's instructions to proceed (PO Number CROWN/808 received by email on the 11th of October 2021).

1.2 Objectives

The works have been commissioned to assist in clearing planning conditions and to assist with the design of the development.

The objective of the Phase 1 Desk Study is to formulate a preliminary Ground Model and an Initial Conceptual Model of the site to identify and make a preliminary assessment of key geo-environmental and geotechnical risks to the proposed development.

The objective of the Phase 2 Ground Investigation is:

- to resolve uncertainties identified in the Phase 1 Desk Study review by refining and updating the preliminary Ground Model, determining geo-environmental and geotechnical site conditions and identifying key contamination risks by updating and finalising the Conceptual Model in accordance with the principles of LCRM;
- to identify geo-environmental mitigation requirements to enable development; and
- to provide preliminary geotechnical recommendations for design.

1.3 Scope

The site investigation includes a Phase 1 Desk Study review and a Phase 2 Ground Investigation.

The scope of the Phase 1 Desk Study review comprises:

- a field reconnaissance (walkover) to determine the nature of the site and its surroundings including current and former land uses, topography and hydrology;
- review of provided historical reports including:
  - » historical Ordnance Survey maps, to identify former potentially contaminative uses shown at the site and immediately surrounding it, and an assessment of the associated contamination risks;
  - » a third-party environmental report to identify flooding warning areas, local landfills, pollution incidents, abstractions, environmental permits etc. which may have had the potential to have environmental impact on the site;
  - » topographical, geological and hydrogeological maps;
  - » British Geological Survey (BGS) archive records;
  - » regional UXB risk maps;
  - » a site-specific specialist UXO Desk Top Study
  - » the Coal Authority's Interactive Viewer;
- a review of previous investigations carried out at the site;
- development of a preliminary Ground Model representing ground conditions at the site;
- development of an outline Conceptual Model (oCM), including identification of potential pollution linkages;
- a qualitative assessment of any geo-environmental risks identified; and
- identification of plausible geotechnical hazards.

The scope of the Phase 2 Ground Investigation comprises:

- a ground investigation including trial pitting, windowless sampling, sonic drilling or open holing with rotary cored follow-on, cable percussive boring, dynamic sampling with rotary open or cored follow-on drilling to:
  - » obtain data on the ground and groundwater conditions of the site;
  - » allow collection of samples for geotechnical and chemical laboratory analysis;
  - » allow geotechnical field tests to be undertaken;
  - » install gas and groundwater wells;
- gas concentration and groundwater level monitoring;
- gas and groundwater sampling;
- geotechnical and chemical laboratory analysis;
- updating of the preliminary Ground Model;
- preparation of a geotechnical risk register;
- presentation of an initial geotechnical design recommendations;

- formulation of an updated Conceptual Site Model (CM), including identification of plausible pollution linkages;
- completion of a generic quantitative risk assessment of potential chemical contaminants to establish 'suitability for use' under the current planning regime;
- discussion of potential environmental liabilities associated with land contamination (soil, water and gas); and
- identification of outline mitigation requirements to ensure the site is 'suitable for use'.

1.4 Available information

The following reports shown in Table 1.1 have been provided to Hydrock by the client for review and use in the preparation of this report:

Table 1.1: Provided information

Document Number	Title	Company	Date
01	Desk Studies and Site investigation at various sites	Parkman	Sep 1992
02	Factual Environmental Assessment Desk study report	Parkman	Oct 1998
03	Environmental information review for proposed excavation work	Komex	October 2000
04	Site Investigation Report Factual – Volume 1	Entec	February 2003
05	Site Investigation Report Factual – Volume 2	Entec	February 2003
06	Site Investigation report interpretative – Volume 1	Entec	February 2003
07	Site Investigation report interpretative – Volume 2	Entec	February 2003
08	Risk Management plan	Entec	February 2009
09	Factual Supplementary Site Investigation report	Entec	October 2009
10	Hydrogeological risk assessment	Entec	March 2010
11	Stage 5 remediation strategy report	Entec	September 2010
12	Remediation Statement	Entec	October 2010
13	Final verification report	AMEC	October 2011
14	Environmental assessment supplementary ground investigation factual report	WYG	June 2015
15	Summary of Remediation works undertaken on behalf of National Grid	Ecus	November 2015
16	Historic environment desk-based assessment	Ecus	January 2020
17	Phase 1 Geo-Environmental Assessment	Ecus	August 2020
18	Interpretative land condition summary statement report	WYG	December 2020

The aforementioned reports have been used for information only as the ownership and ability to rely upon their contents is not known and many of the reports are now quite old.

1.5 Regulatory context and guidance

The investigation work has been carried out in general compliance with recognised best practice, including (but not limited to) BS 5930:2015, BS 10175:2011+A2:2017 and the AGS (2006) 'Good Practice Guidelines for Site Investigations'.

The geo-environmental section of this report is written in broad accordance with BS 10175:2011+ A2:2017, 'Land Contamination: Risk Management' (LCRM, 2020) and the AGS (2006) 'Good Practice Guidelines for Site Investigations'.

The methods used follow a risk-based approach, the first stage of which is a Phase 1 desk study and field reconnaissance, with the potential geo-environmental risk assessed qualitatively using the 'source-pathway-receptor contaminant linkage' concept to assess risk as introduced in the Environmental Protection Act 1990 (EPA, 1990). Potential geotechnical risks are also assessed.

Phase 2 comprises intrusive ground investigation work and testing. The factual information from Phase 1 and Phase 2 are used to develop the Conceptual Model (CM). This CM is based on a ground model of the site physical conditions and an exposure model of the possible contaminant linkages. The CM forms the basis for Generic Quantitative Risk Assessment (GQRA) in accordance with current guidelines. This GQRA might lead to more Detailed Quantitative Risk Assessment (DQRA).

Professional judgement is then used to evaluate the findings of the risk assessments and to provide recommendations for the development.

The geotechnical section of this report is prepared in general accordance with BS EN 1997-1+A1: 2013, BS EN 1997-2:2007 and BS 8004:2015. This report constitutes a Ground Investigation Report (GIR) as described in Part 2 of Eurocode 7 (BS EN 1997-2) (EC7). However, it is not intended to fulfil the requirements of a Geotechnical Design Report (GDR) as specified in EC7.

Where relevant the NHBC Standards (2019), have also been applied.

The geo-environmental and geotechnical aspects are discussed in separate sections. Throughout the report the term 'geotechnical' is used to describe aspects relating to the physical nature of the site (such as foundation requirements) and the term 'geo-environmental' is used to describe aspects relating to ground-related environmental issues (such as potential contamination). However, it should be appreciated that this is an integrated investigation and these two main aspects are inter-related. Designers should take all aspects of the investigation into account.

Remaining uncertainties and recommendations for further work are listed in Section 9 and Section 10.

Reference to the details of the approach and the methodologies adopted are provided in Appendix I.

2. PHASE 1 STUDY (DESK STUDY REVIEW AND FIELD RECONNAISSANCE)

2.1 Introduction

Hydrock has been provided with a previous reports containing desk-based assessments for the subject site prepared by others (as detailed in Section 1), Hydrock generally agree with the findings of the previous desk-based assessments and the following section is a summary of the pertinent information presented in these assessments, supplemented by additional information as required.

Hydrock have undertaken an updated field reconnaissance survey on 15th November 2021 to visually assess potential geotechnical hazards, contaminant sources and receptors and ensure the site conditions as reported in the desk study are similar to current conditions.

This report constitutes the assessment of ground conditions, hydrogeological conditions, geo-environmental data and geotechnical data from across phases 1 and 2 referenced on the site features plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1002), presented in Appendix A.

2.2 Site location

The site is located at the former CCP car park, Gould Street, Manchester, 1km north east of Manchester City Centre, 500m east of Manchester Victoria Train Station and 350m north west of the A62 (National Grid Reference 384704.59E, 399210.32N).

A site location plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1001), is presented in Appendix A.

2.3 Site description

The site is a roughly rectangular parcel of land consisting of phase 1 and phase 2 as shown on the site features plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1002), presented in Appendix A. The site slopes gently from the east at approximately 45.97m to approximately 45.45m AOD above Ordnance Datum (OD) in the west.

The site comprises a former car park, with associated access in the west and parking spaces in the west and along the northern section. There is a small one storey office building and a welfare building in the west, which were utilized by the car park attendant. Also, in the west there is a brick building containing an electricity substation, gas meter and also water meter.

Across the centre of the site is a large concrete slab formerly housing a call centre, there is evidence of relict walls and column pads across the surface on the concrete slab. In the east of the site there is a compound with a radio mast and also a pigging compound containing above ground gas infrastructure. There are small open storage shelters and concrete storage bays adjacent to the west boundary.

Soft landscaping is present in the south west. Various bushes and local mature trees are present on the western boundary. Semi mature and mature trees are present across the south west and then sporadically across the southern boundary. Buddleia is present in the south west and south. Across the southern boundary, levels are 300mm higher than existing ground level containing demolition rubble and some localised small stockpiles of demolition rubble. It was noted on the site walkover that horsetail is present across the demolition rubble and small stockpiles in the south.

The site is bound to the south by a brick retaining wall which is approximately 8m higher than the existing ground level on site, in the east and by west by a brick retaining walls approximately 4m higher

than the existing ground level on site. Offsite to north/north west the adjacent pressure reduction station and car park are on a plateau lower than the site at 42.40m compared to 45.70m AOD.

During the site walkover various forms of fly tipping were noted locally including tyres, old refrigerators, old bikes and various plastics. Within the catacombs offsite and adjacent to the south east, various forms of household fly tipping were noted, including observations of asbestos containing materials.

2.4 Site history

Between the 1820s to late 1960s the site formed part of a large gas works until closure and demolition of much of the infrastructure.

Records from 1851 show stables across phase 2 and within phase 1 there are three buildings and a circular feature shown associated with the earlier gas works activity.

OS Mapping from 1896 shows four rectangular buildings including three retort houses with associated coal yards orientating south east to north west, two across phase 1 and one across phase 2. A rectangular building in the west of phase 1 was used as a mechanic workshop, smithy and garage.

In 1908 the site is recorded as Rochdale Road Gas Works. Between the three retort houses and western building, sets of railway sidings are shown orientating from south east to north west, which will have delivered coal to the retort houses.

OS Mapping from 1931 no longer records sidings in the west, which have been dismantled. The mapping records three sets railway siding orientating south east to north west, two across phase 2 and one across phase 1. There are also offices, stores and exhausters shown to encroach onto the northern site boundary. Two conveyors are also shown, one in the west and second in the east.

OS mapping from 1948 to 1953 records one retort house remaining in the phase 2. A storage hopper in the east of phase 2 contains conveyors leading into the retort house which also contains an adjacent coke plant. Four tanks are present in the south of phase 1, a coke feeder/washing plant and benzole plant are shown close to the centre of phase 1. The rectangular building in the west of phase 1 remains.

OS Mapping from circa 1960 indicates that a small liquor tank was present in phase 1. The location is noted as approximate on the available mapping. OS mapping from 1972 shows the western building and the liquor tank remaining in the phase 1 of the site which were likely disused following closure of the gas works. All structures in phase 2 have been demolished and are no longer recorded.

OS mapping from 1982, shows all structures related to Rochdale Gas Works onsite and the wider works offsite to the north to have been demolished. From 1982 a depot is recorded across phase 1 and phase 2. Fuel tanks and pumps were also identified during a site visit in 1992, present in the north of phase 2, these were likely present from 1982 and serviced the onsite depot.

Transco records from 1998 show an electrical substation is constructed to the west of the depot. It's understood that post 2000 the depot became a call centre until its demolition to slab level.

Offsite to the north (wider gasworks) in the 1896, there are four gas holders and in 1931 various office, stores, exhausters, washers/scrubbers and pumphouses are present across the west, south and east. OS mapping from circa 1960 shows two tar wells, one in the centre and one in the west and a supply tank in the north. Structures including wells and tanks are identified on Manchester City Council records.

Historical structures identified on the available OS mapping as shown on the historical features plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1007), presented in Appendix A.

2.5 Geology

The superficial geology comprises Glacial Till (Devensian) which is recorded as sandy gravelly clay.

The solid geology comprises Chester Formation, comprising red-brown, yellow, or yellow-mottled, very fine- to coarse-grained sandstones that are commonly cross-bedded, locally micaceous, silty or argillaceous, pebbly or conglomeratic, and generally friable.

There are two faults offsite, one 185 north east and another 88m south west, both faults are trending from north west to south.

Various historical ground investigations have been undertaken on the site which are summarised below:

Parkman 1992

The ground investigation comprised of 17 trial pits completed between 1.00m and 2.50m bgl, adjacent to retaining walls. The logs available include trial pit undertaken adjacent to the northern retaining wall, retaining the car park. The ground conditions encountered included;

- Made Ground comprising tarmac underlain by sub base in turn underlain by red/brown, grey/brown, black sand or gravel and stiff brown locally black clay.
- Gravel comprising brick, solid tar and concrete with man-made constituents including metal, wood, plastic and polythene.
- Within TP9 between 0.60m and 0.70m the gravel was noted as ashy with tar inclusions.
- Solid tar was recorded within TP11 between 0.50m and 1.00m, within TP12 from 0.60m and 1.50m bgl and TP13 from 0.60m to 1.60m bgl.
- Within TP14 there was a firm to stiff brown clay between 1.80m and 2.00m bgl containing an oily sheen and a hydrocarbon odour.
- A concrete slab was encountered within TP15 at 0.75m which was found to contain a tarry substance on the surface.
- All trial pits were completed in Made Ground, with TP12, TP15 and TP16 terminated due to instability of the trial pits.
- No groundwater was encountered within the trial pits undertaken.

Entec 2002

During the investigation the call centre was still present therefore investigation was limited across the central area of the site. The ground investigation comprised two cable percussive to 14.00m and 22.50m bgl in the north of phase 2, eleven window samples across phase 1 and phase 2 to between 1.30m and 5.00m bgl and six trial pits to between 1.90m and 2.50m bgl. The ground conditions encountered included;

- Made Ground comprising tarmac or topsoil underlain by dark grey/black sandy ashy gravel, brown sandy clay, dark grey/brown gravel, yellow brown clayey sandy gravel or dark grey sand.
- Gravel comprising brick, concrete, sandstone, slag and clinker with man-made constituents including timber, metal and copper wire.
- Concrete obstructions, suspected underground service and relict brick walls resulted in early termination of trial pits.

- Within the Made Ground locally strong oil odours, dark grey oily sheens and diesel odours were noted (summarised in Section 5).
- Deep Made Ground was encountered in the north/north east in the order of 4.00m to 5.00m bgl, in the south Made Ground was in the order of 1.60m to 3.00m bgl and in the west Made Ground was in the order of 1.20m and 2.00m bgl.
- Within WS13 in the east of phase 2 at 2.00m bgl moth ball odours were recorded within the Made Ground.
- Within the window sample boreholes where encountered the Glacial Till comprised a firm to stiff dark red brown sandy gravelly clay.
- The cable percussive boreholes within phase 2 proved the Glacial Till to extend to 11.50m bgl and was underlain by the Weathered Chester Formation comprising very dense orange brown clayey sand and gravel becoming red brown sand to 17.40m bgl.
- The competent Chester Formation was described as a weak red Sandstone extending to the base of the borehole at 22.50m bgl.
- Within BH5A solvent odours were noted in the Weathered Chester Formation at 15.50m bgl.
- Groundwater was struck within BH5A at 19.40m bgl. Perched water was recorded in the south of phase 1 at 0.80m bgl.

AMEC 2011

The investigation comprised nine window samples were undertaken across the southern boundary of phase 1 and phase 2. The window samples were completed between 0.30m and 1.15m and

- Made Ground comprising reworked topsoil over sandy gravelly brick fill with concrete, orangish red sand or brown slightly clayey sandy gravel.
- Gravel comprising brick with man-made constituents including timber, plastic and polystyrene.
- All boreholes met an early termination due to encountering cables or concrete likely associated with relict slabs.
- No groundwater strikes are recorded within the boreholes.

WYG 2015

A ground investigation was completed including window samples, trial pitting, cable percussive boreholes and hand pitting. Hydrock only have the hand pitting logs from the west of phase 1 available which are summarised below:

- Made Ground comprising reworked topsoil over very soft grey slightly sandy gravelly clay, brown and grey/reddish brown gravelly locally clayey sand or light brown sandy clayey gravel.
- Gravel comprising brick, sandstone and concrete with man-made constituents including plastic and pipe fragments.
- The hand pits were completed between 0.40m and 0.60m bgl. No groundwater was encountered during the hand pitting and photoionization detection reading were all 0.0ppm.

2.6 Hydrogeology

The Glacial Till is classed by the Environment Agency as a Secondary (Undifferentiated) Aquifer and the Chester Formation is classified as a Principal Aquifer.

The expected groundwater conditions under current conditions are intermittent ('perched') groundwater in the Made Ground and a separate water table (or piezometric surface) at depth in the Chester Formation Sandstone. Limited hydraulic continuity between the Made Ground and the sandstone via the glacio-fluvial deposits is inferred (but, overall, the glacial drift would be expected to restrict the propensity for contamination present in the Made Ground to migrate downwards into the sandstone.

Deeper groundwater was encountered during the historic ground investigations within the competent Chester Formation at circa 19.40m bgl.

It is anticipated that deeper groundwater within the Chester Formation will flow north/east towards the River Irk situated 250m west of the site boundary.

The nearest groundwater abstraction is situated 635m north of the site and abstracted water is used for cooling and process water. The site is not underlain by a groundwater Source Protection Zone.

2.7 Hydrology

The primary natural drainage feature is the River Irk 250m to the west and Rochdale Canal present 670m south east of the site. The River Irk is flowing north east to south west discharging into the River Irwell 800m south west of the site.

Reference to the Environment Agency web site shows the site is located within the catchment of the Roch Irwell Medlock, with the specific river water body being the Irk (Wince to Irwell). The current (2016 cycle 2) overall status under the Water Framework Directive is 'poor due Physico-chemical quality elements including Ammonia (Phys-Chem), Phosphate and Biochemical Oxygen Demand (BOD).

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

The site storm drainage system, including the location of interceptors will discharge into surface water drainage on Gould Street which in turn will likely discharge into the River Irk some 200m north west of the site.

2.8 Flood risk

The desk study information indicates the proposed development is in Flood Zone 1 (with a low probability of flooding from rivers or the sea). No further consideration of flood risk is undertaken in this report. Specialist flood risk advice should be sought with regard to drainage and flooding.

Phase 1 and 2 lies within an area where there is limited potential for groundwater flooding to occur.

2.9 Mining or mineral extraction

The site lies within a coal mining reporting area and therefore British Coal were consulted by Parkman Consulting in 1992 whilst they completed their ground condition desk study. British Coal provided a coal risk document referenced PCE/MAN/12278/2/6 DATED 21ST September 1992. The key findings are summarised below:

- Three seams of coal are mined at 290m and 880m at depth or within vicinity of the property, last dated 1967.
- There are no recorded of disused mine shafts within influencing distance of the property.

- The property is not situated or adjoined to an area from which coal has been extracted by British Coal or their licenses by opencast.

The Coal Authority viewer shows the site to lie in a low-risk development area with no recorded or probable shallow coal underlying the site. Give the depth to historic recorded coal seams, the risk posed by coal mining to the site is considered to be very low.

2.10 Natural ground instability

Trees and hedges are present around the site boundaries. Cohesive deposits of the Glacial Till may be affected by the potential for shrink-swell ground movements in clays as a result of changes in moisture content from removal or growth of trees.

Previous ground investigation encountered deep Made Ground between 3.00m and 5.00m in the north/north east and south of the site. This represents a geotechnical risk due to the presence of heterogeneous Made Ground. Foundations will need to be deepened to below the Made Ground.

2.11 Waste management

There are no records of historic landfill within 250m of the site. There are four records of licensed waste management sites within 250m of the site. The closest is 55m north of the site and is associated with a waste transfer station accepting household, commercial and industrial waste.

There are two records of registered waste transfer sites, one of these operated adjacent to the north of the site, operated on application by British Gas Plc dated in 1995, there is no information regarding waste types accepted at the transfer site.

2.12 Regulatory information

There are eight records of Local Authority Pollution and Prevention Controls within 500m of the site. The closest is 30m west of the site at Ludgate Hill and covered tobacco, processing operated by Manchester Tobacco Limited.

There are two records of sites handling Registered Radioactive Substances within 500m of the site, the closest is 215m south west and was associated with the disposal of radioactive waste at Angel Industrial Estate. The status of the record has been revoked and cancelled.

There are no records of any Control of Major Accident Hazards (COMAH) Sites, Planning Hazardous Substances Consents or Enforcements, Explosive Sites or Notification of Installation of Handling Hazardous Substances (NIHHS) sites within 1km of the site.

The nearest trade entry is 8m north west of the site and relates to garages. The closest petrol station entry is 55m south east of the site, which is now obsolete.

Five pollution incidents to controlled waters occurred within 500m of the site, the closest occurred 135m north west of the site and involved waste oil released into the River Irk. The incident was classified as a Category 3 (Minor) incident.

There are five records of substantial pollution incidents within 500m of the site. The closest is 241m north west and was a Category 2 (Significant) incident to land and Category 3 (Minor) incident to air, involving the asbestos, tyres, commercial and household wastes.

There are twenty-five records of licensed discharge consents to surface waters within 250m of the site. The majority of the discharge consents have been revoked. The closest active discharge consent is

situated 142m north west at Bromley Street and involves the discharge of a storm sewage overflow to the River Irk.

2.13 Natural soil chemistry

Information contained within the previous environmental report indicatives (estimated) concentration values for the natural soils at the site for a selection of Contaminants of Potential Concern (CoPC). These have been reproduced in Table 2.1.

Table 2.1: Natural soil chemistry

Element	Arsenic	Cadmium	Chromium	Lead	Nickel
Concentration (mg/kg)	15-25	<1.8	60 - 90	100-200	30-45

The data in Table 2.1 is considered within the geo-environmental assessment.

Lead has been proven during previous ground investigations in the natural soils to range from 5mg/kg to 490mg/kg and is considered by Hydrock to require further investigation and assessment.

2.14 Radon

The radon risk is reported by reference to the Indicative Atlas of Radon in England and Wales (Miles et al 2007). The guidance indicates that the site is not in a Radon Affected Area and no radon protection measures are required.

2.15 Previous Remediation Works

WS13 eastern boundary of phase 2

- No significant contamination was identified in the excavation and it was backfilled with a site-won material.

2.16 Untreated Area

- Below the former call centre building (WS01, *Entec, 2002)*
- Two isolated hotspots to the south of the former call centre building (WS01 and WS04A, *Entec, 2002).*

2.17 Unexploded ordnance (UXO)

In general accordance with CIRIA Report C681 (Stone et al 2009) a non-specialist UXO screening exercise has been undertaken for the purposes of ground investigation and is presented in Table 2.2 .

Table 2.2: Non-specialist UXO screening (for the purposes of ground investigation)

Data	Comment	Further Assessment Required
Site History	The site was a gasworks during WW2 and was a known Luftwaffe target. Entec 2010 reports: " *Site records indicate this area* [tar wells] *was formerly a welfare facility and office in the wider gas works to the north but suffered substantial damage when directly bombed during the Second World War.*	Yes

Data	Comment	Further Assessment Required
Post War Development	The 1949 OS mapping (Figure 2.1) shows a 'ruin' in the wider gas works to the north west, (consistent with the Entec 2010 statement above) suggesting bomb damage. This is most likely as a result of WW2 bombing.	Yes
Geology Type	The ground conditions comprise variable thicknesses of Made Ground over Glacial Till over Sandstone. It is unlikely UXO would remain undetected.	No
Surface Cover during WW2	The surface cover during WW2 comprised a significant proportion of bituminous bound pavement, concrete and buildings. It is unlikely UXO would remain undetected.	No
Indicator of Aerial Delivered UXO	Screening against the regional bomb risk map (Manchester) indicates the site to be in an area where the bomb risk is moderate. Review of Manchester bombing maps indicates several bomb strikes were recorded on site, as shown on in Figure 2.2 below.[1]	Yes

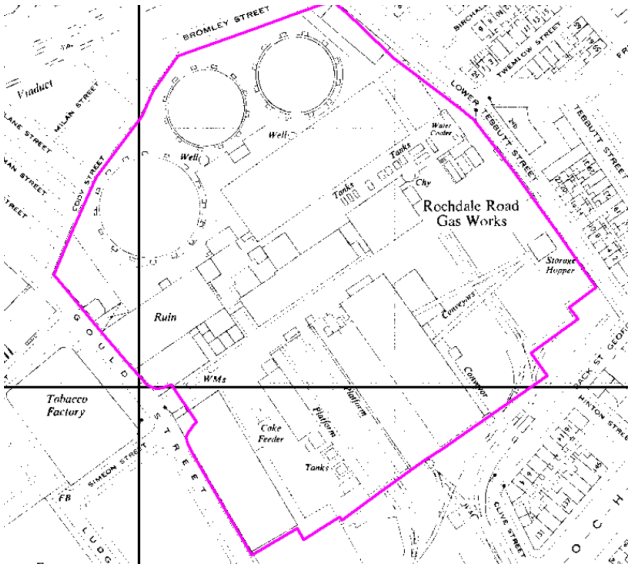


Figure 2.1: 'Ruin' on 1949 OS Map.

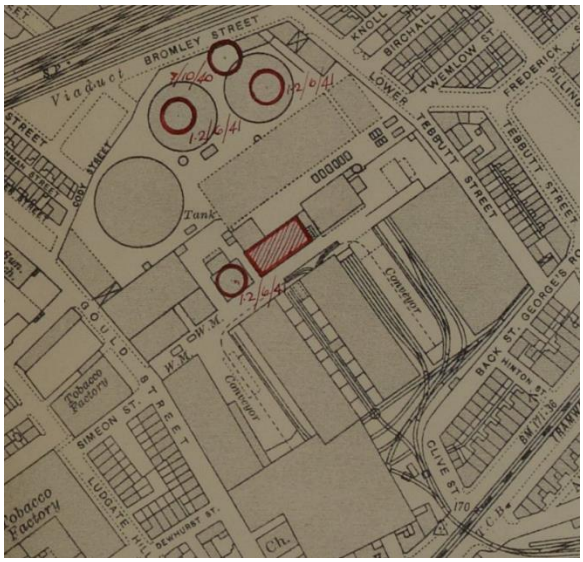


Figure 2.2: Records of on-site bomb strikes.

The non-specialist UXO screening exercise has indicated further assessment is required. A specialist UXO risk assessment in accordance with CIRIA Report C681 is recommended prior to any construction and/or intrusive remediation activities.

[1] Extracted from https://luna.manchester.ac.uk/luna/servlet/s/2o4hg2

3. OUTLINE CONCEPTUAL MODEL

3.1 Introduction

The outline Conceptual Model (oCM) incorporates evidence from the site walkover, the Desk Study and previous investigations carried out at the site. The formulation of an outline Conceptual Model is a key component of the LCRM methodology. The oCM incorporates a ground model of the site physical conditions and an exposure model of the possible contaminant linkages; it forms the basis for Generic Quantitative Risk Assessment (GQRA) in accordance with current guidelines.

3.2 Ground model

The preliminary ground model presented in Section 2 provides an understanding of the ground conditions and is the basis for preparing the preliminary geotechnical hazard assessment (Section 3.3) and the preliminary geo-environmental exposure model (Section 3.4).

3.3 Geotechnical hazard identification

3.3.1 Context

The preliminary geotechnical hazard identification has been undertaken in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622.

The following section sets out the identified geotechnical hazards and the development elements potentially affected (see Table J.1 in Appendix G for further information).

3.3.2 Plausible geotechnical hazards

Plausible geotechnical hazards identified at the site are:

- Uncontrolled Made Ground (variable strength and compressibility).
- Soft / loose compressible ground (low strength and high settlement potential).
- Shrinkage / swelling of the clay fraction of soils under the influence of vegetation.
- Variable lateral and vertical changes in ground conditions.
- Attack of buried concrete by aggressive ground conditions.
- Adverse chemical ground conditions, (e.g. expansive slag).
- Obstructions.
- Shallow groundwater.
- Loose Made Ground, leading to difficulty with excavation and collapse of side walls.
- Slope stability issues – retaining walls.
- Earthworks – poor bearing capacity of new fill.
- Earthworks – unsuitability of site won material to be reused as fill.

3.3.3 Potential development elements affected

Development elements potentially affected by geotechnical hazards are:

- Buildings – foundations.

- Buildings – floor Slabs
- Roads and pavements.
- Services.
- Retaining walls.
- Gardens.
- Construction staff, vehicles and plant operators.
- Concrete below ground.
- Earthwork's control, inability to place and compact fill. Insufficient fill to complete earthworks.

Health and safety risks to site Contractors and maintenance workers have not been assessed during these works and will need to be considered separately during design. The above plausible geotechnical hazards and development elements affected have been carried forward for investigation and assessment. The investigation is presented in Section 5 and the assessment is presented in Section 6.0.

3.4 Geo-environmental exposure model

3.4.1 Context

The preliminary exposure model is used to identify geo-environmental hazards and to establish potential pollution linkages, based on the source-pathway-receptor (SPR) approach.

A viable pollution linkage requires all the components of an SPR to be present. If only one or two are present, there is no linkage and no further assessment is required.

3.4.2 Potential contaminants

For the purpose of this assessment the potential contaminants have been separated according to whether they are likely to have originated from an on-site or off-site source.

3.4.2.1 Potential on-site sources of contamination

- Made Ground, associated with former gas works activities, possibly including elevated concentrations of metals, metalloids, polycyclic aromatic hydrocarbons (PAH), benzene, toluene, ethylbenzene and xylene (BTEX), cyanides, ammonium, sulphate/sulphides, elevated pH, petroleum hydrocarbons, volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) (S01).
- Made Ground, potentially containing asbestos fibres and Asbestos Containing Materials from demolition of former call centre (S02).
- Asbestos containing materials within the existing car park attendants building, electrical substation or fly tipped within the catacombs (S03).
- Hydrocarbon fuels, lubricants, and solvents from the operation of the former depot on the site including leakage from Underground Storage Tanks (USTs), Above Ground Storage Tanks (ASTs), the pipework between tanks and pumps, and general spillage, together with uncontrolled disposal and spillage from waste receptacles (S04).
- Polychlorinated biphenyls (PCB) and oils from transformers in the electricity sub-station on site (S05).
- Ground gases (carbon dioxide and methane) from organic materials in the Made Ground (S06).

- Hydrocarbon vapours from potential VOC, SVOC and petroleum hydrocarbon spillages/leaks (S07).

3.4.2.2 *Potential off-site sources of contamination*

- Leachable or dissolved phase contaminants from the offsite wider gas works site, possibly including concentrations of metals, metalloids, PAH, BTEX, cyanides, ammonium, sulphate/sulphides, elevated pH and petroleum hydrocarbons (S08).
- Ground gases (carbon dioxide and methane) from organic materials in the backfill to the former gas holders or tar wells located offsite to the north (S09).

3.4.3 *Potential receptors*

The following potential receptors in relation to the proposed land use have been identified.

- People (neighbours, site end users) (R01).
- Development end use (buildings and utilities) (R02).
- Groundwater: Principal aquifer status of the Chester Formation (R03).
- Surface water: the River Irk that may be in hydraulic continuity with the groundwater onsite (R04).
- Plant Life (R05)

3.4.4 *Potential pathways*

- To people:
  - » Dermal contact with contaminated soils or accidental ingestion (principally site end users) (P01);
  - » Inhalation (of dust: site end users and neighbours) (P02);
  - » Inhalation (of soil-derived vapours: site end users) (P03); and
  - » Inhalation (of vapours arising from groundwater: site end users, neighbours) (P04).
- To controlled waters:
  - » Physical migration of free-phase NAPLs (P05);
  - » Leaching and downward transmission to groundwater (P06);
  - » Migration of contaminated waters via preferential pathways (e.g., piles) (P07); and
  - » Groundwater migration to surface water (and dependent ecosystems) (P08).
- Direct contact with infrastructure (including services) (P09).
- Plant uptake (by landscaping, from potentially contaminated soils) (P10).

Health and safety risks to site development contractors and maintenance workers have not been assessed as part of this study and will need to be considered separately. The above sources, pathways and receptors have been considered as part of the Preliminary Risk Assessment in accordance with LCRM (2019), are considered to be plausible in the context of this site and have been carried forward for investigation and assessment. The investigation is presented in Section 5 and the assessment is presented in Section 7. An assessment of the Source – Pathway – Receptor linkages is undertaken following the assessment (Section 7) and is presented in Appendix H (Table K.1).

A summary of the plausible linkages is presented on the Preliminary Conceptual Model (site wide) is presented in Appendix A. (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1008).

4. GROUND INVESTIGATIONS

4.1 Investigation rationale

The ground investigation rationale was based on the findings of the preliminary risk assessment and is summarised in Table 4.1.

For the investigation rationale of the historical investigations, please refer to the historical reports.

Table 4.1: Investigation rationale

Location	Purpose
Unremediated Areas	
TP708, TP717 and TP720	To assess shallow ground conditions. To allow collection of samples for targeted chemical analysis at the locations of known spillages resulting in records of strong oily odours, dark grey staining and grey oily sheens. To collect samples for vapour screening using a photoionization detector.
Remediated Area	
MPBH715	To assess deeper ground conditions and to allow SPTs to be undertaken. To allow collection of samples for geotechnical characterisation. To allow collection of samples for targeted contamination testing where remediation has been recorded. Installation of a gas and groundwater monitoring and sampling well.
Electrical Sub Station	
MPBH701	To provide samples for targeted PCB testing adjacent to electrical substation. To assess deeper ground conditions and to allow SPTs to be undertaken. To collect rock cores from the Chester Formation for strength testing. To allow collection of samples for geotechnical characterisation. To allow collection of samples for contamination testing. Installation of gas and groundwater monitoring and sampling wells.
General Site Coverage	
MPBH702 to MPBH714	To assess deeper ground conditions and to allow SPTs to be undertaken. To collect rock cores from the Chester Formation for strength testing. To allow collection of samples for geotechnical characterisation. To allow collection of samples for contamination testing. Installation of gas and groundwater monitoring and sampling wells.
TP701 and TP707 TP703 to TP704, TP709 to TP716, TP718 and TP719 and TP722	To assess shallow ground conditions. To allow collection of samples for contamination testing. To allow collection of samples for geotechnical characterisation. To undertake in-situ undrained shear strength testing on the Glacial Till. To collect samples for vapour screening using a photoionization detector.
WS701 to WS705	To assess shallow ground conditions and to allow SPTs to be undertaken. To allow collection of samples for contamination testing. To allow collection of samples for geotechnical characterisation. Installation of gas and groundwater monitoring and sampling wells. To collect samples for vapour screening using a photoionization detector.

4.2 Constraints

Hydrock were unable to carry out MPBH716, MPBH717 and TP706 in the east of phase 2 due to proximity of the intermediate pressure gas main. Cadent were unable to visit the site to supervise the works during the time the ground investigation was carried out.

Across the north west of phase 1 Hydrock were unable to carry out trial pits TP701, TP702, TP705 and TP721 due to the presence of parked cars which remained in-situ during the time the ground investigation was carried out.

4.3 Site works

The fieldwork took place between 15th November and 20th December 2021 and is summarised in Table 4.2. The ground investigation locations were surveyed in using a topographic survey quality GPS and are shown on the Phase 1 and Phase 2 site investigation Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1003) in Appendix B

The logs, including details of ground conditions, soil sampling, *in situ* testing and any installations, are also presented in Appendix B.

Table 4.2: Summary of site works

Activity	Method	No.	Depth Range (m bgl)	In situ tests	Notes (e.g. installations)
Drilling, Pitting and Probing					
Boreholes	Cable percussive, Dynamic sampling and Rotary Coring	3	20.00 - 21.00	SPT/U100s	63mm HDPE wells with gas taps in 3 holes
	Dynamic sampling, Rotary Open Hole and Rotary Coring	10	17.50 - 25.50	SPT/UT100s	63mm HDPE wells with gas taps in 10 holes
	Rotary open holing with Rotary coring	1	21.00	-	-
	Dynamic sampling	1	4.00	SPT	63mm HDPE wells with gas taps in 1 hole
	Windowless sampler	4	1.80 - 5.45	SPT/PIDs	63mm HDPE wells with gas taps in 4 holes
Trial pits	Machine (JCB 3X)	18	0.75 - 3.30	Hand shear vane (HSV)/PIDs	-
	Hand-excavated	2	0.40 - 0.70	-	-
Other in situ testing or monitoring					
Hydrogeological	Falling head	1	Screened 1 - 4m bgl	Permeability	Test undertaken within WS701.

Wells for monitoring groundwater levels and ground gas concentrations, and to facilitate the sampling of groundwater, were installed in a number of the windowless sampler and deep boreholes during the Hydrock ground investigation. Selected historic ground investigation locations installed by others were also used for monitoring. A summary of the current and usable historic monitoring well installations are presented in Table 4.3. Boreholes monitored outside of phases 1 and 2 are referenced e.g., phase 3 (P3) and phase 4 (P4).

Table 4.3: Summary of monitoring installations

Location	Ground level (m OD)	Standpipe diameter	Screen top and base depth (m bgl)	Screen top and base elevation (m OD)	Strata targeted
Entec 2002					
BH08 (P3)	45.66	50	1.30 - 4.30	44.36 - 41.36	Made Ground
WS11 (P3)	45.87	50	1.00 - 1.50	44.87 - 44.37	Made Ground
BH06 (P4)	42.58	50	9.00 - 10.30	33.58 - 32.28	Glacial Till
BH02A (P3)	42.69	50	13.50 - 19.40	29.19 - 23.29	Chester Formation
BH03A (P3)	-	50	13.50 - 18.75	-	Chester Formation
WYG 2015					
BH302A*	-	50	Base = 23.65	-	Chester Formation
BH301* (P3)	-	50	Base = 24.70	-	Chester Formation
BH303A* (P3)	-	50	Base = 24.00	-	Chester Formation
BH305* (P3)	-	50	Base = 9.17	-	Glacial Till
WS310*	-	50	Base = 0.78	-	Made Ground
Hydrock 2021					
MPBH701	45.23	50	7.00 - 13.00	38.23 - 32.23	Glacial Till
MPBH702	45.66	50	13.00 - 21.00	32.66 - 24.66	Glacial Till/ Weathered Chester Formation
MPBH703	45.91	50	3.00 - 9.00	42.91 - 36.91	Glacial Till
MPBH704	45.96	50	12.00 - 17.00	33.96 - 28.96	Glacial Till/ Weathered Chester Formation
MPBH705	45.77	50	7.00 - 13.00	38.77 - 32.77	Glacial Till
MPBH706	45.68	50	15.00 - 21.00	30.68 - 24.68	Weathered Chester Formation/Chester Formation
MPBH707	45.80	50	4.00 - 10.00	41.8 - 35.8	Made Ground/ Glacial Till
MPBH708	45.77	50	0.50 - 3.50	45.27 - 42.27	Made Ground
MPBH709	45.42	50	5.00 - 12.00	40.42 - 33.42	Glacial Till
MPBH710	45.85	50	10.00 - 16.00	35.85 - 29.85	Glacial Till/ Weathered Chester Formation
MPBH711	46.03	50	13.00 - 19.00	33.03 - 27.03	Glacial Till/Weathered Chester Formation/Chester Formation
MPBH713	46.07	50	17.00 - 21.00	29.07 - 25.07	Chester Formation
MPBH714S**	46.01	50	1.00 - 2.00	45.01 - 44.01	Made Ground
MPBH714D***	46.01	50	3.00 - 10.00	43.01 - 36.01	Glacial Till
MPBH715	45.87	50	14.00 - 21.00	31.87 - 24.87	Weathered Chester Formation/Chester Formation
WS701	43.82	50	1.00 - 4.00	43.82 - 40.82	Glacial Till
WS702	44.99	50	0.50 - 3.00	44.99 - 42.49	Made Ground

Location	Ground level (m OD)	Standpipe diameter	Screen top and base depth (m bgl)	Screen top and base elevation (m OD)	Strata targeted
WS703	44.79	50	0.80 - 1.80	44.79 - 43.79	Made Ground
WS704	45.17	50	0.60 - 1.60	45.17 - 44.17	Made Ground/ Glacial Till
*** S=shallow borehole installation ***D= deep borehole installation*					

*The borehole logs for the WYG 2015 ground investigation have not been made available to Hydrock, therefore an assumption has been made on the screened strata following a monitoring round undertaken on the 18th of January 2021 and utilizing Hydrock's understanding of the ground conditions.

A summary of the monitoring locations is presented on the monitoring locations plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1006), which is presented in Appendix A.

4.4 Geo-environmental testing

4.4.1 Sampling strategy and protocols

Exploratory hole positions were determined by reference to the site conditions and uncertainties identified in the Initial Conceptual Model.

Certain specific features such as the areas unremediated and remediated areas (see Table 4.1) were targeted for specific investigation, but a reasonably even spacing was used for the remainder of the site.

Samples were taken, stored and transported in general accordance with BS 10175:2011+A2:2017.

4.4.2 Site screening tests

A photoionization detector (PID) (Tiger Phocheck 10.3ev) was used during the fieldwork to screen samples. The PID readings are detailed on the exploratory hole logs in Appendix B.

Within TP704 between 0.95m and 1.15m bgl and TP722 between 0.95m and 1.30m bgl buried bituminous layers containing a weak hydrocarbon odour were subject to targeted PAH laboratory testing was undertaken (See Section 4.4.4).

4.4.3 Geo-environmental monitoring

Gas monitoring boreholes have been monitored on three occasions. The results are presented in Appendix D. Monitoring is ongoing and this report will be updated on completion of the monitoring.

During a monitoring round undertaken on the 18th of January 2021, groundwater from selected historic and current boreholes installed into the Glacial Till and Chester Formation were subject to water quality parameter assessment.

Water quality parameters within the groundwater measured included pH, Electrical Conductivity, Dissolved Oxygen, Redox Potential, Salinity, Total Dissolved Solids, Turbidity and Temperature. The results are summarised in Table 5.7

4.4.4 Geo-environmental laboratory analyses

The chemical test certificates for testing undertaken by Hydrock are provided in Appendix E. Wherever possible, UKAS and MCERTS accredited procedures have been used.

The chemical test certificates for testing undertaken as part of historical investigations are provided in the relevant reports by Entec (2003), AMEC (2011) and WYG (2015).

The geo-environmental analyses undertaken on soils or other solids are summarised in Table 4.4.

Table 4.4: Geo-environmental analyses of soils or other solids

Determinand Suite	Topsoil	Bituminous Made Ground	Made Ground	Glacial Till	Chester Formation
Hydrock Data					
Hydrock minimum suite of determinands for solids*	1	3	32	4	1
Ammonium (Ammoniacal Nitrogen as NH4)	0	1	19	16	7
Thiocyanate	0	0	8	4	1
Speciated Phenols (Phenols by HPLC)	0	0	7	4	1
Speciated aliphatic and aromatic banding Total petroleum hydrocarbons by HS-GC/MS and GC/FID (Hydrock Tier 2 TPH Suite)	0	2	23	10	5
Benzene, toluene, ethylbenzene and xylene (BTEX) by HS-GC/MS	0	2	23	10	5
MTBE (Methyl Tertiary Butyl Ether) by HS-GC/MS	0	2	23	10	5
Volatile organic compounds (VOC target list plus TIC) by HS-GC/MS	0	1	13	6	1
Semi-volatile organic compounds (SVOC target list plus TIC) by GC-MS	0	1	13	6	1
Polychlorinated biphenyls (PCB, WHO12)	0	0	1	1	0
Asbestos quantification	0	1	5	0	0
Asbestos Bulk Identification	0	0	1	0	0
*Hydrock minimum soil suite comprises: As, B (water soluble), Be, Cd, Cr (total), Cr (VI), Cu, Hg, Ni, Pb, S (elemental), Se, V, Zn, cyanide (free and total), sulphide, pH, asbestos fibres, speciated polynuclear aromatic hydrocarbons (PAH, by GC-FID), total phenols and fraction of organic carbon					

The soils chemical test data (including both Hydrock and historical data) are interpreted and assessed in Sections 7.3 and 7.4.

The geo-environmental analyses undertaken on groundwater for testing undertaken by Hydrock is summarised in Table 4.5.

Table 4.5: Geo-environmental analyses of groundwater

Determinand Suite	Made Ground	Glacial Till	Sandstone
Hydrock minimum suite of determinands for waters	1	7	12
Speciated aliphatic and aromatic banding Total petroleum hydrocarbons by HS-GC/MS and GC/FID (Hydrock Tier 2 TPH Suite)	1	7	12
Benzene, toluene, ethylbenzene and xylene (BTEX) by HS-GC/MS	1	7	12
Volatile organic compounds (VOC target list plus TIC) by HS-GC/MS	1	7	12
Semi-volatile organic compounds (SVOC target list plus TIC) by GC-MS	1	7	12
MTBE (Methyl Tertiary Butyl Ether) by HS-GC/MS	1	7	12
Complex cyanide (low-level)	1	7	12
Thiocyanate	1	7	12
Speciated Phenols (GC/MS)	1	7	12

The Hydrock groundwater chemical test data are interpreted and assessed in Section 7.5.

4.5 Geotechnical testing

4.5.1 Geotechnical laboratory testing

The geotechnical tests undertaken by Hydrock are summarised in Table 4.6 and the test certificates are provided in Appendix C. Wherever possible, UKAS accredited procedures have been used.

Table 4.6: Summary of sample numbers for geotechnical tests

Test	Made Ground	Glacial Till	Weathered Chester Formation	Chester Formation
Hydrock data				
Natural moisture content	11	27	0	0
Atterberg limits	5	25	0	0
Particle size distribution (sieve/sedimentation)	3	10	2	0
Sulphate and aggressive chemical environment classification for buried concrete classification (full BRE SD1 suite)	8	9	1	5
Single stage undrained triaxial compressive strength	0	6	0	0
Consolidated undrained triaxial compressive strength	0	5	0	0
One dimensional oedometer consolidation	0	6	0	0
Optimum Moisture Content / Maximum Dry Density Relationship (2.5kg rammer), with hand shear vane at each compaction point	2	1	0	0
Optimum Moisture Content / Maximum Dry Density Relationship (4.5kg rammer), with hand shear vane at each compaction point	1	1	0	0
Optimum Moisture Content / Maximum Dry Density Relationship (vibrating hammer)	1	0	0	0

Test	Made Ground	Glacial Till	Weathered Chester Formation	Chester Formation
Particle density	3	2	0	0
Remoulded California Bearing Ratio at natural moisture content (unsoaked)	5	2	0	0
Organic Matter	7	2	0	0
Large Shear Box- Rapid Test of set of 3 (100x100mm) specimens- Peak and Residual Strength	1	0	0	0
Water Content BS EN 1097-5	0	0	0	15
Uniaxial Compressive Strength (UCS)	0	0	0	17
Point Load Strength	0	0	0	34

The Hydrock geotechnical test data are summarised in Section 5.7 and interpreted in Section 6.0

5. GROUND INVESTIGATION RECORDS AND DATA

5.1 Physical ground conditions

5.1.1 Summary of strata encountered

The following presents a summary of the properties of the ground and groundwater conditions encountered, based on field observations, interpretation of the field data and laboratory test results, taking into account drilling, excavation and sampling methods, transport, handling and specimen preparation.

All relevant data from the Hydrock investigation discussed in Section 4 as well as any reliable data from previous investigations noted in Section 1.4 are used from this point forward.

Details of the Hydrock ground investigation works are provided in the logs in Appendix B, a summary of the ground model is presented in Table 5.1 and the individual strata are described in the sections below. Relevant cross-sections are presented in Appendix B and referenced on the Phase 1 and Phase 2 Contour Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1003) in Appendix B..

The ground investigation locations were surveyed in using a topographic survey quality GPS and are shown on the Phase 1 and Phase 2 site investigation Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1003) in Appendix B.

Table 5.1: Strata encountered

Stratum	Depth to top (m bgl)	Depth to base (m bgl)	Thickness (m) (range)	Thickness (m) (average)
Surface Cover – Concrete hardstanding	Ground level-0.25	0.12 - 0.25	0.12 - 0.25	0.20
Surface Cover – Asphalt hardstanding (north/north west only)	Ground level - 0.25	0.10 - 0.25	0.10 - 0.25	0.18
Topsoil (western half only)	Ground level - 0.30	0.20 - 0.30	0.20 - 0.30	0.25
Buried Concrete	0.65 - 3.00	0.70 - 4.00*	0.20 - 2.00**	0.80
Buried Bituminous Material (TP704, TP722)	0.95	1.15 - 1.30	0.20 - 0.35	0.28
Made Ground	Ground level - 0.30	0.65 - 5.00	0.50 - 5.00	1.97
Glacial Till	0.70 - 5.00	9.80 - 16.10	6.55 - 15.00	10.76
Weathered Chester Formation	9.80 - 16.10	16.10 - >21.00	2.70 - 8.30	4.65
Chester Formation	16.10 - 19.25	unproven	unproven	unproven

**Buried Concrete hardstanding base was generally unproven within trial pits.*
***Where proven within deep boreholes.*

5.1.2 Surface covering- Concrete Hardstanding

Concrete hardstanding was encountered at ground level across the slab of the former call centre situated across phase 1 and 2. The thickness of concrete varied between 0.12m and 0.25m bgl. Generally, the concrete comprised strong light grey reinforced concrete with up to 60% aggregates of limestone, quartz, quartzite and basalt.

The concrete contained two layers of reinforcement at circa 0.05 to 0.09m bgl and circa 0.16 to 0.19m bgl, the rebar was either 3-4mm or 7-8mm in diameter. At the base of the concrete hardstanding a plastic waterproof membrane was present.

5.1.3 Surface covering- Asphalt Hardstanding

Asphalt hardstanding was present across the north, north east and north west of phases 1 and 2. The asphalt was between 0.10m and 0.20m in thickness and contained up to 70% aggregate including limestone and quartzite.

5.1.4 Topsoil

Topsoil was present locally within landscaping in the west of phase 1 and also in a small area of landscaping present in the north of phase 1.

The topsoil was between 0.20m and 0.30m in thickness and comprised very soft dark brown sandy gravelly clay with rare rootlets. Gravel within the topsoil consisted of coal, mudstone and sandstone.

5.1.5 Buried Concrete

Within numerous trial pits undertaken across the slab of the former call centre, buried concrete slabs were encountered between 0.65m and 1.70m bgl. Where encountered the concrete slab resulted in the early termination of the trial pit. Within TP712 a concrete slab was broken out between 0.40m and 1.10m bgl.

The extent of buried concrete hardstanding was proven within the deep boreholes, where the rotary drilling rig was able to core through the concrete. In the west of phase one underneath the landscaping area and also asphalt hardstanding a buried slab was present between 0.50m and 0.70m and 0.40m to 1.10m bgl.

Within MPBH704 and MPBH705 in the west of the former call centre a buried concrete slab was encountered between 0.75m to 1.10m and 1.35m to 2.00m bgl respectively. Deeper concrete was present across the centre of the site straddling phase 1 and 2. Within MPBH706, MPBH707, MPBH708, MPBH710 and MPBH712 buried concrete slab and brick work was present from 2.00m up 4.70m bgl. The buried concrete present in the centre and west of the site is likely related to the location of the former retort housing.

The location of buried obstructions is presented on the Phase 1 and phase 2 Obstructions plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1013) in Appendix A.

5.1.6 Buried Bituminous Hardstanding

A buried bituminous material was encountered in the east of phase 2 within TP704 and TP722. The material was encountered between 0.95m up to 1.30m bgl. Within TP722 the bituminous material was recorded as containing a weak hydrocarbon odour.

Within TP720 a thin layer of buried asphalt was present between 0.50m and 0.60m bgl.

5.1.7 Made Ground

Deep Made Ground was encountered in the north east of the phase 2, up to 5.00m bgl and north across phase 1 and 2 up to 4.00m bgl. Localised deep Made Ground was also encountered across the south up to 4.00m bgl.

The deep Made Ground is likely associated with the existing slab/foundation remaining underneath the call centre associated with the former retort houses. Furthermore, the difference in levels up to 3.00m, between the higher phases 1 and 2 compared to phases 3 and 4 would suggest that post gas works activity, fill has been placed across phases 1 and 2.

Generally, outside the area of deeper Made Ground, the Made Ground was found to be between 0.60m and 2.40m bgl. The base of Made Ground in m bgl and m AOD is presented on the Depth to the Phase 1 and Phase 2 Base of Made Ground plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1010) in Appendix A.

The Made Ground comprised either loose or medium dense greyish brown/light grey/dark brown/black sandy silty or clayey locally ashy gravel with a medium to high cobble content, very soft to firm dark brown/black/orangish brown sandy gravelly clay or black/light brown gravelly locally clayey silty locally ashy sand.

The gravel within the Made Ground comprised sandstone, limestone, brick, coal, concrete, clinker, slag, granite, slate, bitumen and quartzite. Cobble content within the Made Ground was of brick, concrete and bitumen. Man-made constituents were encountered within the Made Ground consisting of wire, floor tile, plastic, timber, glass and metal.

Black and yellowish-brown cobbles of sandstone likely from a former access between the retort buildings was encountered within TP709 between 0.75m and 0.85m bgl, TP715 between 0.90m and 1.15m bgl, TP720 between 1.00m and 1.10m bgl and WS703 between 0.60m and 0.70m bgl.

Localised moderate organic (humic) odours were recorded within TP713 between 0.95m and 1.30m and WS702 between 0.60m and 0.70m bgl.

In the south west phase 1 the Made Ground in MPBH703A between 0.20m and 0.40m bgl contained five pieces of suspected cement type asbestos varying in size from 60x80mm, 20x30mm and 10x15mm.

5.1.8 Glacial Till

Glacial Till was encountered underlying the Made Ground across the entire site. The top of the Glacial Till was between 0.70m and 5.00m bgl with an average thickness of 10.76m.

The previous ground investigation interpreted sand/gravel at depth within the Glacial Till as fluvial glacial deposits. During the Hydrock ground investigation minor bands of sand were encountered and they were local and discontinuous. Deeper gravelly sand directly underlying the Glacial Till has been interpretated as the Weathered Chester Formation due to the presence of medium to coarse gravel of extremely weak sandstone and a hue that is similar to the underlying Chester Formation.

The Glacial Till comprised a very stiff to stiff very high to high strength dark brown slightly sandy to sandy slightly gravelly to gravelly clay with a gravel content of mudstone, sandstone and siltstone.

Locally within MPBH714 between 6.00m and 10.50m the Glacial Till was encountered as a very stiff high strength sandy clay becoming a silty clay with depth.

Local bands of silty sand were present in the Glacial Till within MPBH702 from 5.00m to 5.70m, MPBH703 from 11.00m to 12.00m, MPBH707 from 9.50m to 10.00m and MPBH714 from 6.50m to 7.00m bgl.

5.1.9 *Weathered Chester Formation*

The Weathered Chester Formation was encountered underlying the Glacial Till and overlying the more competent Chester Formation. The depth to the Weathered Chester Formation generally increases from the east to the south west underlying the site. In the east the Weathered Chester Formation was encountered between 9.5m and 12.5m increasing to between 13.5m and 16.5m bgl towards the south west of the site.

The Depth to the top of the Phase 1 and Phase 2 Top of Weathered Chester Formation plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1011) is presented in Appendix A.

The Weathered Chester Formation was encountered as either a dense reddish orange gravelly to very gravelly silty sand or a dense light grey/light brown or reddish orange sandy clayey gravel. The gravel content comprised of sandstone, quartzite and quartz.

5.1.10 *Chester Formation*

The more competent Chester Formation was encountered underlying the Weathered Chester Formation between 16.10m and 19.25m bgl.

The Chester Formation was encountered in the north of phase 1 and south of phase 2 as a weak to medium strong reddish orange medium to coarse sandstone with very closely to medium spaced fracture sets which were horizontal to sub horizontal in orientation. Closed fractures were encountered which were infilled with cemented sand as well as fractures which had been sand infilled.

In the west of phase 1 the Chester Formation was recorded as an extremely weak reddish orange medium to coarse sandstone which was highly fractured with fracture spacing extremely closely to closely spaced. Across the centre, west and east of the site there were various areas of no recovery within the Chester Formation suggestive of a highly weathered or extremely weak sandstone these are summarised in Table 5.3.

Table 5.2: Depths of no recovery within the Chester Formation

Borehole ID	Location on site	Depth (m bgl)
MPBH702	West of phase 1	22.00 to 22.50
MPBH703	West of phase 1	17.50 to 18.60
MPBH709	North west of phase 2	18.50 to 20.00
MPBH710	West of phase 2	16.50 to 17.80
MPBH710	West of phase 2	18.00 to 19.50
MPBH711	South east of phase 1	19.50 to 21.00
MPBH712	South of phase 1	18.00 to 21.00
MPBH714	North east of phase 2	19.50 to 24.50
MPBH715	North east of phase 2	17.00 to 20.00

5.2 Obstructions

Obstructions were encountered in a number of trial pits and boreholes during the investigation. These intrusive locations are summarised in Table 5.3.

The location of buried obstructions is also presented on the Phase 1 and Phase 2 Obstructions plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1013) in Appendix A.

Table 5.3: Obstructions encountered

Stratum	Location	Depth (m bgl)	Description
Hydrock 2021			
Made Ground	T7P04	0.25 - 1.15	Relict concrete slab and suspected footing.
	TP707	1.20 - 2.40	Relict brick wall, unable to find footing.
	TP708	1.00	Relict concrete slab.
	TP709	1.40	Relict concrete slab.
	TP10	1.00 - 1.30	Layer of bricks suspected brick wall.
		1.60	600mm diameter concrete pipe (Undamaged).
	TP711	1.00 - 1.60	Relict brick wall and brick floor at base. Possible infilled basement.
	TP712	0.40 - 1.10	Relict concrete slab.
	TP713	1.55	Relict concrete slab.
	TP714	0.80 - 1.00	Relict concrete slab.
	TP716	0.60 – 1.10	Relict concrete slab.
	TP717	1.10	100mm diameter clay pipe (Undamaged).
	TP718	0.85	Relict concrete slab.
	TP719	0.75	Relict concrete slab.
	MPBH702	0.50 - 0.70	Relict concrete slab.
	MPBH703	0.50 - 0.70	Relict concrete slab.
	MPBH704	0.75 - 1.10	Relict concrete slab.
	MPBH705	1.35 - 2.00	Relict concrete slab.
	MPBH706	3.00- 4.00	Relict concrete slab and brickwork.
	MPBH707	2.20 - 4.70	Relict concrete slab/footing and brickwork.
	MPBH707A	0.70	Concrete slab.
	MPBH708	4.00	Concrete obstruction encountered.
	MPBH710	2.00 - 4.00	Relict concrete slab/footing and brickwork.
	MPBH712	3.50 - 3.70	Relict concrete slab.
Entec 2002			
	TP01A	0.60 - 1.20	Concrete slab and brickwork.
	TP01	0.60 - 0.80	Relict concrete slab.
	TP08	0.30 - 1.80	Brick wall.
	TP08	1.80	200mm cast iron pipe.
	TP09	0.00 - 2.10	Brick wall.
	TP11	1.90	Relict concrete slab.

Stratum	Location	Depth (m bgl)	Description
AMEC 2011			
Made Ground	WS501	0.80	Concrete obstruction encountered.
	WS502	0.30	Cable encountered.
	WS502A	0.50	Cable encountered.
	WS502B	0.80	Concrete obstruction encountered.
	WS503	0.65	Concrete obstruction encountered.
	WS504	0.80	Concrete obstruction encountered.
AMEC 2011			
Made Ground	WS505	0.45	Cable in side wall.
		1.15	Concrete obstruction encountered.
	WS506	0.25	Concrete obstruction encountered.
	WS507	0.20	Concrete obstruction encountered.
	WS508	0.80	Concrete obstruction encountered.

5.3 Visual and olfactory evidence of contamination (soil)

In addition to the more common man-made constituents (ash, clinker, plastic, etc), described above in Section 5.1.4, visual and olfactory evidence of contamination was noted in a number of locations, summarised in Table 5.4, with this information presented on the Phase 1 and Phase 2 Visual and Olfactory Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1015) in Appendix A.

Table 5.4: Visual and olfactory evidence of contamination - soils

Stratum	Location	Depth (m bgl)	Description
Hydrock 2021			
Made Ground	MPBH703A	0.20 - 0.40	Suspected cement type asbestos.
	MPBH709	3.80 - 4.20	Weak diesel odour and visual sheen.
	MPBH711	1.00 - 4.50	Gravel contained a weak diesel odour.
	MPBH713	0.50 - 2.30	Gravel contained a very weak diesel odour.
	TP709	0.85 - 1.00	Weak diesel odour.
		1.00 - 1.40	Distinct diesel odour.
	TP713	0.95 - 1.20	Very weak diesel odour.
		1.30 - 1.70	100mmx100mm granular pockets with visual sheen and weak diesel odour.
	TP710	1.30 - 1.60	200mmx300mm granular pockets with distinct diesel odour.
	TP720	0.80 - 1.00	Very weak diesel odour.
		1.10 - 1.50	Weak diesel odour and visual sheen.
	TP722	0.95 - 1.30	Bitumen layer with a weak hydrocarbon odour.
	WS702	0.60 - 1.30	Weak diesel odour.
		2.80 - 3.10	Very weak diesel odour.
	WS703	1.30 - 1.50	Weak diesel odour and slight sheen.
	WS704	0.65 - 1.20	Very weak diesel odour.

Stratum	Location	Depth (m bgl)	Description
		1.20 - 1.50	Suspected weak sweet solvent odour.
Glacial Till	WS704	1.50	Visual sheen on top of Glacial Till.
Entec 2002			
Weathered Chester Formation	BH05A	15.50	Very weak solvent odour.
Made Ground	WS01	0.70	Strong oily odour.
Entec 2002/2009			
Made Ground	WS301	0.22 – 1.35	Black staining with slight tar odour.
	WS01	1.60	Strong oily odour.
	WS02	1.00	Dark grey staining.
	WS04	2.00	Grey oily sheen.
	WS10	3.50	Spent oxide.
	WS15	1.00	Oily staining.
	WS15	1.50	Oily staining.
	WS15	2.00	Oily staining and Diesel odour.
	TP1	0.50	Diesel Odour.
	TP11	1.00 - 1.30	Diesel Odour.
Parkman 1992			
Made Ground	TP14	1.80 - 2.00	Hydrocarbon odour and oily staining.

5.4 Groundwater

5.4.1 Groundwater observations and levels

Groundwater encountered during the investigation is listed in Table 5.5. A groundwater observation represents the depth at which groundwater was first observed and is likely to be deeper than the actual water table level at that location.

Table 5.5: Groundwater occurrence

Stratum	Date	Location	Fieldwork	Comment
			Groundwater observation (m bgl)	
Hydrock 2021				
Made Ground	19/11/21	TP703	0.65	Slow seepage.
	17/11/21	TP713	1.20	Slow seepage.
	02/12/21	MPBH709	3.80	Slow inflow.
	01/12/21	MPBH711	1.00	Slow inflow.
Glacial Till	19/11/21	TP720	1.50	Perched. Moderate inflow.
	02/12/21	MPBH705	2.00	Slow inflow.
	15/12/21	MPBH714	9.00	Slow inflow.
Weathered Chester Formation	29/11/21	MPBH707	16.20	Slow inflow.

Stratum	Date	Location	Fieldwork	Comment
			Groundwater observation (m bgl)	
Chester Formation	24/11/21	MPBH706	17.00	Slow inflow.
Parkman 1992				
Made Ground	01/12/92	TP13	0.45	Very slow seepage.
	02/12/92	TP14	2.70	Slow inflow.
AMEC 2011				
Made Ground	28/06/11	WS504	0.80	Slow seepage.
Entec 2002				
Made Ground	-	TP01	1.50	Slow seepage.
	-	WS01	0.80	Very slow seepage.
	-	BH01	0.70	Very slow seepage.
Chester Formation	-	BH05a	19.40	Moderate inflow.

Groundwater levels recorded during post-fieldwork monitoring are summarised in Table 5.6.

Table 5.6: Groundwater level data summary

Stratum	Date range	Location	Post-fieldwork monitoring	
			Depth to groundwater (range) (m bgl)	Groundwater elevation (range) (m OD)
Hydrock 2021				
Made Ground	16/12/21-18/01/22	MPBH708*	3.32 - 3.37	42.45 - 42.40
		MPBH714S*	1.42	44.59
		WS702*	2.79 - 2.82	42.20 - 42.17
		WS703*	1.46 - 1.60	43.33 - 43.19
		MPBH707	4.45 - 8.96	41.35 – 36.84
		WS704	1.55 - 1.63	43.62 - 43.54
Glacial Till		MPBH701	8.38 - 9.87	36.85 - 35.36
		MPBH703*	7.90 - 10.00	38.01 - 35.91
		MPBH705	10.21 - 12.06	35.56 -33.71
		MPBH709	4.40 - 4.42	41.02 - 41.00
		MPBH714D	4.18 - 6.67	41.83 - 39.34
		WS701	2.09 -3.70	41.73 - 40.12
Weathered Chester Formation		MPBH704*	17.00	28.96
		MPBH710*	16.00	29.85
Chester Formation		MPBH706	14.35 - 15.62	31.33 – 30.06
		MPBH715	19.30 - 19.39	26.57 -26.48
		MPBH713	19.39 - 19.62	26.68 - 26.45
		MPBH702	19.48 - 19.60	26.18 - 26.06

Stratum	Date range	Location	Post-fieldwork monitoring	
			Depth to groundwater (range) (m bgl)	Groundwater elevation (range) (m OD)
		MPBH711	18.15 - 19.00	27.88 - 27.03
Historical Boreholes (Entec 2002 & 2010)				
Made Ground	18/01/22	BH08 **	3.70	41.96
Glacial Till	18/01/22	BH06 ***	6.30	36.28
Chester Formation	18/01/22	BH02A**	15.54	27.15
Dry on monitoring visits following well development. ** Boreholes present in phase 3. * Borehole present within phase 4.*				

5.4.2 Field monitoring

The results of groundwater quality parameter field monitoring are presented are summarised in Table 5.7. Boreholes monitored outside of phases 1 and 2 are referenced e.g. phase 3 (P3) and phase 4 (P4).

Table 5.7: Water Quality Parameter Data

Location	pH	Redox Potential ORP (mV)	Dissolved Oxygen (mg/l)	Electrical Conductivity (µS/cm)	Total Dissolved Solids (ppt)	Turbidity (NTU)
MPBH706	6.99	3.67	33.75	724.58	0.64	1,268.01
MPBH711	6.71	-120.12	6.26	1,806.11	1.70	0.98
MPBH713	6.63	-84.36	12.30	1,333.45	1.14	1,327.48
MPBH715	7.21	-0.67	2.96	621.98	0.56	6,256.21
MPBH702	7.63	41.54	84.19	938.32	0.82	1,188.57
BH303A (P3)	6.49	34.60	2.06	727.21	0.63	64.54
BH301 (P3)	6.84	-212.62	1.98	2,233.05	1.91	1,298.39
BH03A (P3)	6.99	1.90	58.41	1,180.89	1.05	463.08
BH02A (P3)	6.61	-210.70	2.65	444.68	0.41	135.13
BH305 (P3)	7.53	-159.38	26.59	239.07	0.21	1,067.10

5.4.3 Visual / olfactory evidence of contamination (water)

Visual and olfactory evidence of contamination in water was noted in occasional trial pits and boreholes and is summarised in Table 5.8. Boreholes monitored outside of phases 1 and 2 are referenced e.g. phase 3 (P3) and phase 4 (P4).

Table 5.8: Visual and olfactory evidence of contamination - waters

Stratum	Location	Depth (m bgl)	Description	Comment
Chester Formation	BH02A (P3)	15.54	Dark grey.	Rotten egg odour.
Glacial Till	BH06 (P4)	6.30	Grey brown.	Rotten egg odour.
Made Ground	TP20	1.50	Black with visual sheen.	Very weak hydrocarbon odour.
Glacial Till	MHPBH707	8.96	Dark brown.	Mercaptan odour.

5.4.4 Permeability tests

The results of permeability testing using falling head analysis is summarised in Table 5.9 in accordance with BS EN ISO 22282-2:2012. The datasheet is presented in in Appendix B.

Table 5.9: Permeability test results

Stratum	Borehole No.	Base of test (m bgl)	Permeability Coefficient (k) (m/s)	
			Run 1	Range
Glacial Till	WS301	3.70	No infiltration	-

5.4.5 Groundwater summary

In general, there are localised and discontinuous perched waters present within the Made Ground sat either on clayey layers or at the interface with the Glacial Till between 1.46m and 3.37m bgl. There are also localised and discontinuous perched waters under a sub artesian pressure within bands of sand in the Glacial Till between 4.18m and 6.67m bgl and deeper perched waters at 9.87m and 12.06m bgl.

The monitoring visits undertaken show groundwater within the deeper Chester Formation appears to be generally flowing to the west / southwest, as shown on the Phase 1 and Phase 2 Groundwater Contours plan (Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1014) in Appendix A. Previous interpretations suggest groundwater in the deep sandstone was understood to flow to the north (Entec 2010). Additional site-wide monitoring data is being undertaken and the groundwater conceptual model will be updated upon receipt.

During the monitoring undertaken there were no sheens or hydrocarbon odours noted from the groundwater within the Made Ground/Glacial Till or Chester Formation. In MPBH707 in phase 1 a mercaptan odour was noted relating to organosulfur compounds.

In the south east of phase 2 in an area targeted as unremediated within Table 4.1, perched water at the interface of the Made Ground and Glacial Till at 1.50m bgl was recorded as containing a visual sheen and a very weak hydrocarbon odour.

Due to the depths of Made Ground across the site Hydrock were unable to undertaken soakaway testing. Therefore, WS701 was installed with a response zone between 1.00m and 4.00m bgl within the Glacial Till and a falling head test was undertaken. The falling head test was carried out between 0.32m to 3.70m bgl where groundwater was present. The test was run for a duration of three hours and the head of groundwater within the borehole remained at 0.32m bgl, suggesting the low permeability Glacial Till is unsuitable for soakaways.

5.5 Ground gases (carbon dioxide and methane)

Records from the Hydrock gas monitoring boreholes are presented in Appendix D and summarised in Table 5.10. To date three monitoring visits have been undertaken, with a further three visits to be undertaken as part of the current commission. The data are assessed in Section 7.7.

Table 5.10: Range of ground gas data

Stratum	Methane (%)	Carbon dioxide (%)	Oxygen (%)	Steady flow rate (l/hr)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
Made Ground*	<0.1	<0.1 -1.6	8.6-21.7	<0.1 – 2.4	>1 - 295	<1
Glacial Till**	<0.1	0.2-2.4	0.4-21.5	<0.1-9.4	<1-142	<1
Weathered Chester Formation	<0.1 - 0.7	<0.1-6.8	5.2-21.7	<0.1-1.6	<1	<1
Chester Formation	<0.1-0.3	<0.1-2.1	3.8 - 21.7	<0.1 - 1.9	<1- 3***	<1

*CO elevated on two occasions within MPBH707 at 29-295ppm.

** Seven elevated CO between 29 to 142ppm within MPBH701, MPBH703, MPBH704 and MPBH707

***CO on 1st visit >300ppm and following 2 visits <1ppm within MPBH714D.

5.6 Organic vapours

The PID results are provided on the logs in Appendix B. PID results above background concentration are summarised in Table 5.11. Data are assessed in Section 7.7.

It should be noted that during the historical ground investigations, significant PID readings were measured but no visual or olfactory evidence of contamination was recorded. Hydrock believes that this may be due to use of an uncalibrated PID and therefore these results have been discounted as anomalous and are not included in Table 5.11.

*Table 5.11: PID readings above background 15ppm**

Stratum	Location	Depth (m bgl)	Reading (ppm)
Hydrock 2021			
Made Ground	TP713	1.40	454.2
	WS702	1.20	32
	WS702	1.80	62
	WS702	3.00	23.8
	WS704	1.30	41.8
Hydrock Gas Monitoring (18/01/2022)			
Glacial Till	MPBH705	7.00 - 13.00	21.4
Made Ground/Glacial Till**	WS704	0.60 -1.60	35.9
Entec 2002			
Made Ground	TP01	0.50	17
	WS01	0.70	75
	WS01	1.60	178
	WS02	1.00	880
	WS04	2.00	18.7
Made Ground	WS15	1.00	315
	WS15	1.50	530
	WS15	2.00	250
Weathered Chester Formation	BH05A	15.50	116

*Background concentration measured as 20ppm.** Encountered during 3rd monitoring visit on the 18/01/2022

5.7 Geotechnical data

5.7.1 Introduction

Laboratory test results are contained in Appendix C with *in situ* test results shown on the relevant exploratory hole log or datasheet in Appendix B. The following sections summarise the main findings and provide interpretation where appropriate.

5.7.2 Plasticity

The volume change potentials in terms of NHBC Standard (Chapter 4.2) with respect to building near trees have been determined from the results of plasticity index tests on samples of soil. These are summarised in Table 5.12 and Figure 5.1.

Table 5.12: Volume change potential

Stratum	No. of tests	Plasticity Index			Modified Plasticity Index			Plasticity designation	Volume Change Potential
		Min.	Max.	Av.	Min.	Max.	Av.		
Made Ground	5	15	24	20	3	20	13	Intermediate	Low
Glacial Till	25	13	26	20	12	26	19	Low to intermediate	Low to medium

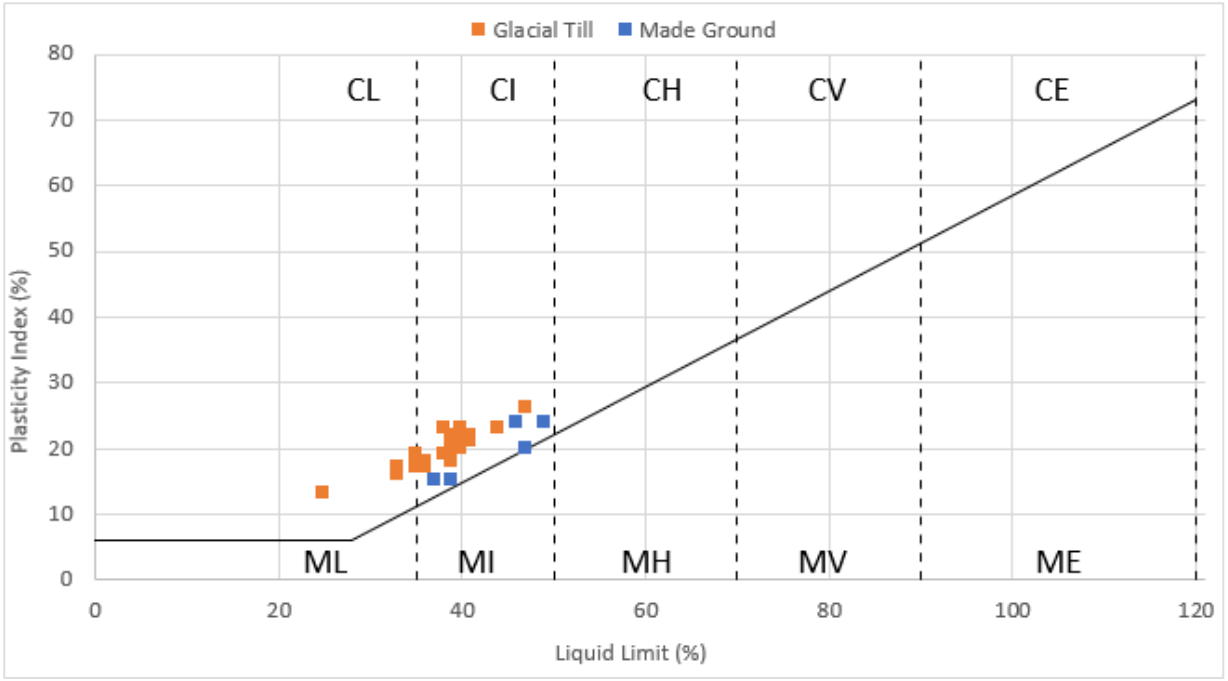


Figure 5.1: Atterberg chart

5.7.3 Particle size distribution

Particle Size Distribution test (PSDs) results are summarised in Table 5.13 and summary descriptions and PSD plots of the material analysed are presented in Appendix C.

Table 5.13: PSD results summary

Stratum	No. of tests	Silt/Clay %	Sand %	Gravel %	General description
Made Ground	3	9-16 [12]	18-23 [21]	61-71 [66]	Sandy gravel.
Glacial Till	10	39-86 [67]	13-55 [28]	1-16 [5]	Stiff to very stiff slightly sand slightly gravelly CLAY
Weathered Chester Formation	2	15, 22	71, 77	1, 14	Dense reddish orange or brown SAND & GRAVEL

Note: Average values provided in brackets.

5.7.4 Soil strength

Table 5.14 summarises information pertaining to the shear strength of the soils according to geological stratum. Factual results are summarised for laboratory tests, field tests (e.g. hand shear vane) and uncorrected Standard Penetration Tests (SPT). Where the SPT is used to infer shear strength by published correlation, this is also tabulated. A shear strength versus depth profile is summarised below, and plots are presented in Appendix C.

Table 5.14: Soil strength results and derived values

Stratum	No. of tests	SPT N-value Range [avg.]	c_u (kPa) Range [avg.]	c' (kPa)	phi' (°)	Method
Made Ground (cohesive)	6	7 – 32 [17]	35 - 160* [84]	-	-	SPT
	5	-	14 – 48 [24]	-	-	Hand shear vane
	5	-	-	-	24 - 27	Correlation with plasticity index from BS8002:2015
Glacial Till	87**	12 – 48 [27]	60 - 240* [135]	-	-	SPT
	31	-	54 – 147 [93]	-	-	Hand shear vane
	6	-	112 – 328 [188]	-	-	Laboratory triaxial test
	25	-	-	-	24 - 28	Correlation with plasticity index from BS8002:2015

*Correlation with Stroud (1975) based on 'average' plasticity.
** 7 SPT refusals not considered as these are likely due to SPT encountering cobbles.

Note: Average values provided in brackets.

As shown by Figure 5.2, the strength profile of the Glacial Till indicates a trend of increased strength with depth, typically with undrained shear strengths of 50 - 100kN/m² at depths of up to 4m bgl, increasing to undrained shear strengths of 80 - 200kN/m² at depths of between 4 and 10m bgl, increasing further with undrained shear strengths typically of 150 - 275kN/m² at depths below 10m bgl,

The recommended characteristic shear strength profile, based on the shear vane, triaxial and CPT data is also shown in Figure 5.2. The profile was selected as a cautious estimate of the value affecting the occurrence of the limit state, in accordance with Eurocode 7.

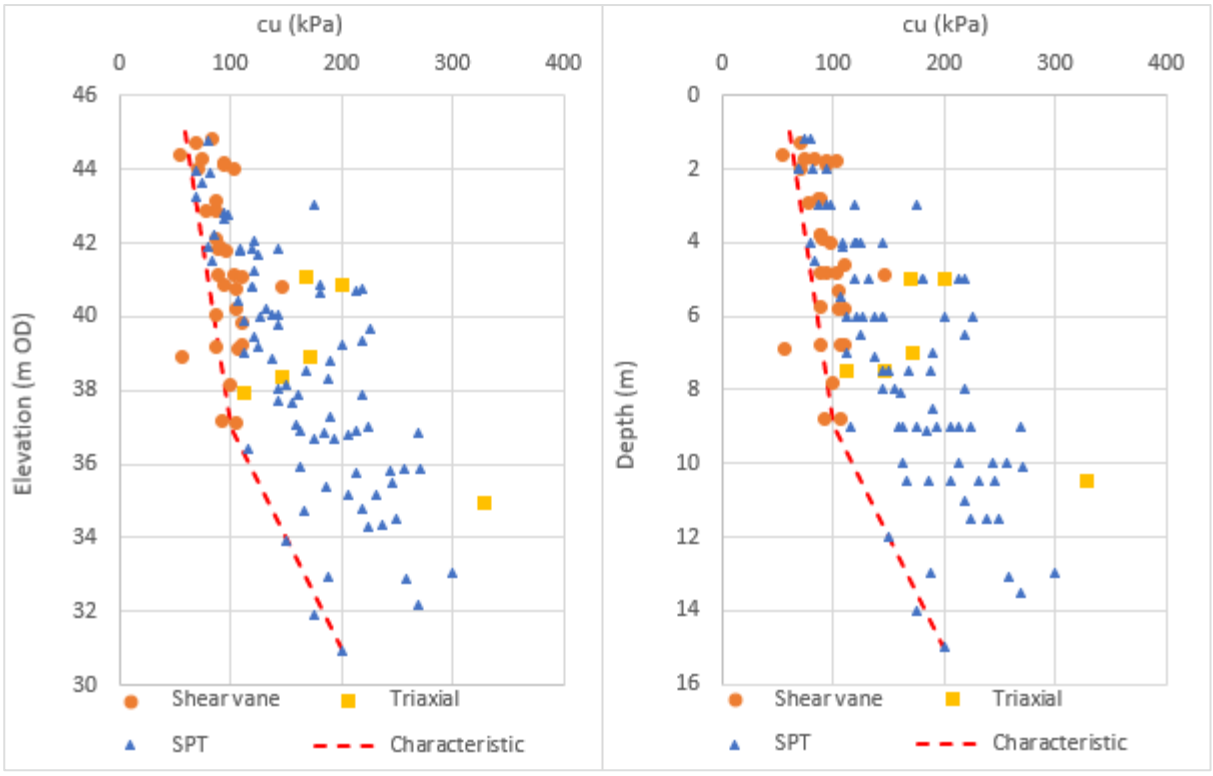


Figure 5.2: Undrained shear strength versus depth summary for the Glacial Till

5.7.5 *Relative density*

Table 5.15 summarises information pertaining to the relative density of the granular soils according to geological stratum. Factual results are summarised for laboratory tests, field tests (e.g. SPT). SPT Plots are presented in Appendix C.

Table 5.15: Relative density results and derived values

Stratum	No. of tests	Method	SPT (N-value) (Range)	phi' (°)
Made Ground	18*	SPT correlation (Peck et. al. (1967)).	0 – 27	28 - 35
Weathered Chester Formation	17**	SPT correlation (Peck et. al. (1967)).	31 - 50+	35 - 39
* 1 of the SPT's recorded blow counts in excess of N=50. ** 11 of the SPT's recorded blow counts in excess of N=50.				

5.7.6 Compressibility

Table 5.16 presents a summary of the derived parameters for coefficient of consolidation and compressibility. The data indicates that the material is generally of medium compressibility over the pressure ranges tested.

Table 5.16: Summary of compressibility

Stratum	Method	No. of tests / results	Pressure range (kN/m²)	Coefficient of volume compressibility (m_v) (m²/MN)	Coefficient of consolidation (C_v) (m²/yr)
Made Ground	Correlation with SPT*	6	-	0.06 – 0.40	
Glacial Till	Correlation with SPT**	87	-	0.03 - 0.13	-
	One Dimensional Oedometer Testing	3	0 - 30	0.23 - 0.54	1.5 - 3.8^
			30 - 60	0.16 - 0.35	1.0 - 1.2^
			60 - 120	0.15 - 0.24	1.3 - 17.0
			120 - 240	0.10 - 0.15	1.9 - 26.0
		2	240 - 280	0.07 - 0.11	21.0 - 35.0
		3	Unload	0.02 - 0.03	-
		2	0 - 50	0.34 - 0.48	7.4 - 15.0^
			50 - 100	0.15 - 0.21	4.9 - 22.0
			100 - 200	0.11 - 0.14	3.5 - 11.0
			200 - 400	0.08 - 0.10	3.4 - 9.9
			Unload	0.02 - 0.03	-
		1	0 – 75	0.45	9.8 - 11.0
			75 - 150	0.21	2.2 - 2.6
			150 - 300	0.15	3.0 - 3.3
			300 - 600	0.09	3.6 - 5.0
			Unload	0.02	-

* An f_2 value of 0.48 has been used based on a plasticity index of 24%. (Tomlinson (2001), after Stroud).

** An f_2 value of 0.54 has been used based on a plasticity index of 20%. (Tomlinson (2001), after Stroud).

^ cv only calculated in one of the oedometer tests, using root and log time methods.

5.7.7 Compaction and moisture content

Table 5.17 presents a summary of the moisture content tests and compaction studies undertaken at the site.

Table 5.17: Compaction study results

Stratum	No. tests	Method	Natural moisture content (%) (range)	Optimum moisture content (%) (range)	Particle density (Mg/m³) (range)	Maximum dry density (Mg/m³) (range)
Made Ground	2	2.5kg Rammer	6.3 – 12.0	7.1 – 12.0	2.56 – 2.67	1.89 – 2.08
	1	4.5kg Rammer	9.0	9.3	2.66	2.06
	1	Vibrating hammer	-	11.0	2.65*	2.02
Glacial Till	1	2.5kg Rammer	20	17	2.72	1.85
	1	4.5kg Rammer	17	16	2.70	1.84

* Assumed

5.7.8 Subgrade stiffness

The subgrade stiffness (CBR and Modulus of Subgrade Reaction) results are summarised in Table 5.18.

Table 5.18: CBR results and derived values

Stratum	No. tests	Method	Modulus of Subgrade Reaction $k_{0.762}$ (MN/m²/m) (Range)	CBR (%) (Range)
Made Ground	5	Laboratory remoulded sample at Natural Moisture Content (NMC)	2.5 - 145	1.2 - 65
Glacial Till	2	Laboratory remoulded sample at Natural Moisture Content (NMC)	23 - 50	3.6 – 8.4

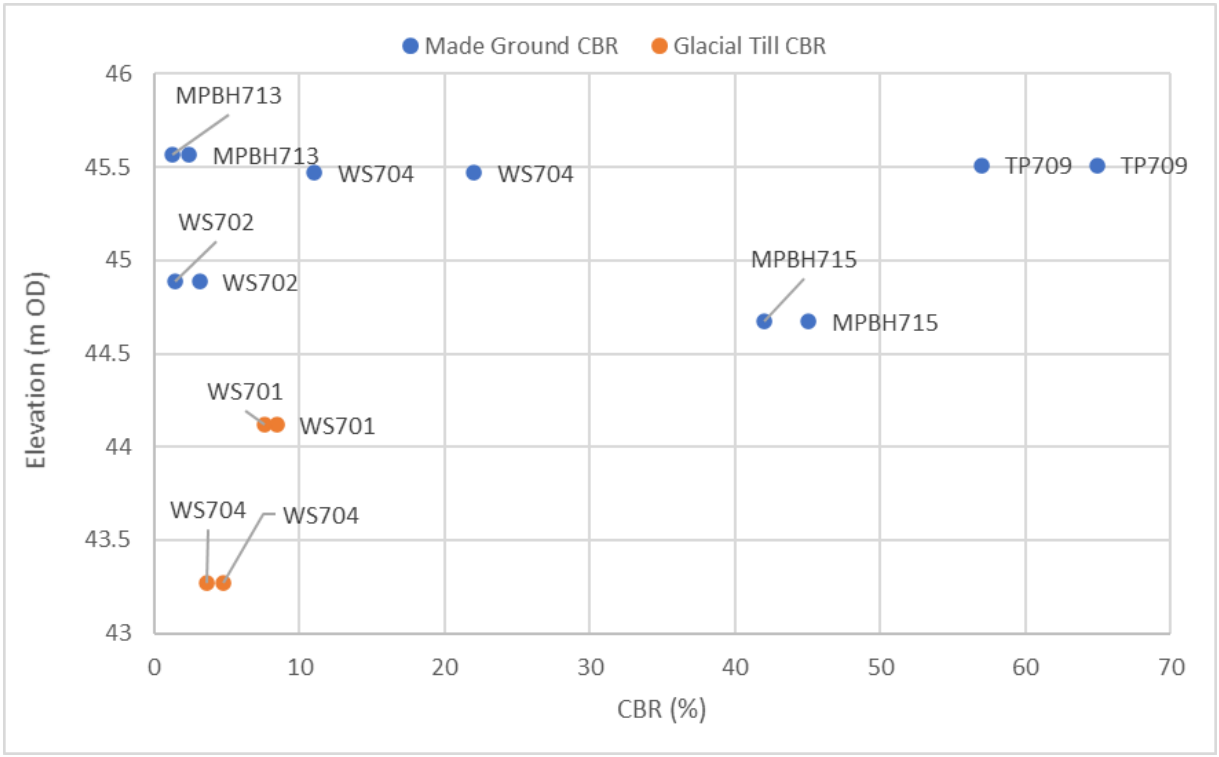


Figure 5.3: CBR versus elevation (m OD)

5.7.9 Sulphate content

In accordance with BRE (Special Digest 1), the Design Sulphate (DS) classification and the Aggressive Chemical Environment for Concrete (ACEC) classification are presented in Table 5.19. The assessment summary sheets are presented in Appendix C.

Table 5.19: Aggressive chemical environment concrete classification

Stratum	No. tests	DS	ACEC
Made Ground	8	DS-4	AC-4
Glacial Till	9	DS-1	AC-1
Weathered Chester Formation	1	DS-1	AC-1
Chester Formation	5	DS-1	AC-1

5.7.10 Intact material strength – rock

Table 5.20 summarises information pertaining to the strength of the intact rock material (not rock mass) according to geological stratum and, if applicable, weathering zones or other variations within particular strata.

Factual results are summarised for laboratory and field tests. Where point load index tests are used to infer uniaxial compressive strength (UCS), this is also tabulated. Rock strength terms follow the method of BS EN ISO 14689-1:2003.

The relationship between UCS and the point load index $Is_{(50)}$ can be expressed as UCS = C*$Is_{(50)}$, where C is a correlation factor. A C factor of 18 as recommended by Das (1985) for sandstone is deemed appropriate in this case, as it shows good agreement with the site-specific data from UCS and Point Load tests undertaken on the same core run, as shown in Figure 5.4.

Care should be exercised in using these assumed rock strength parameters for any purpose beyond the scope of this report because it may be that additional sampling and testing is required for certain purposes. The reader should refer to the original test results in Appendix C. Note also that rock mass properties, rather than intact rock material properties, may be more suitable for design purposes.

Table 5.20: Intact rock strength results and derived values

Stratum	No. of tests	Point load index (Range)		UCS (MPa) (range)	Method
		Is	$Is_{(50)}$		
Chester Formation	24	0.04 – 0.39	0.04 – 0.45	0.72 – 8.10	Axial point load*
	8	0.3 – 0.22	0.03 – 0.27	0.54 – 4.86	Diametral point load*
	17	-	-	4.8 – 14.0	UCS
* Correlation of 18* $Is_{(50)}$ used based on Das (1985) as confirmed by site specific data; refer to Figure 5.4.					

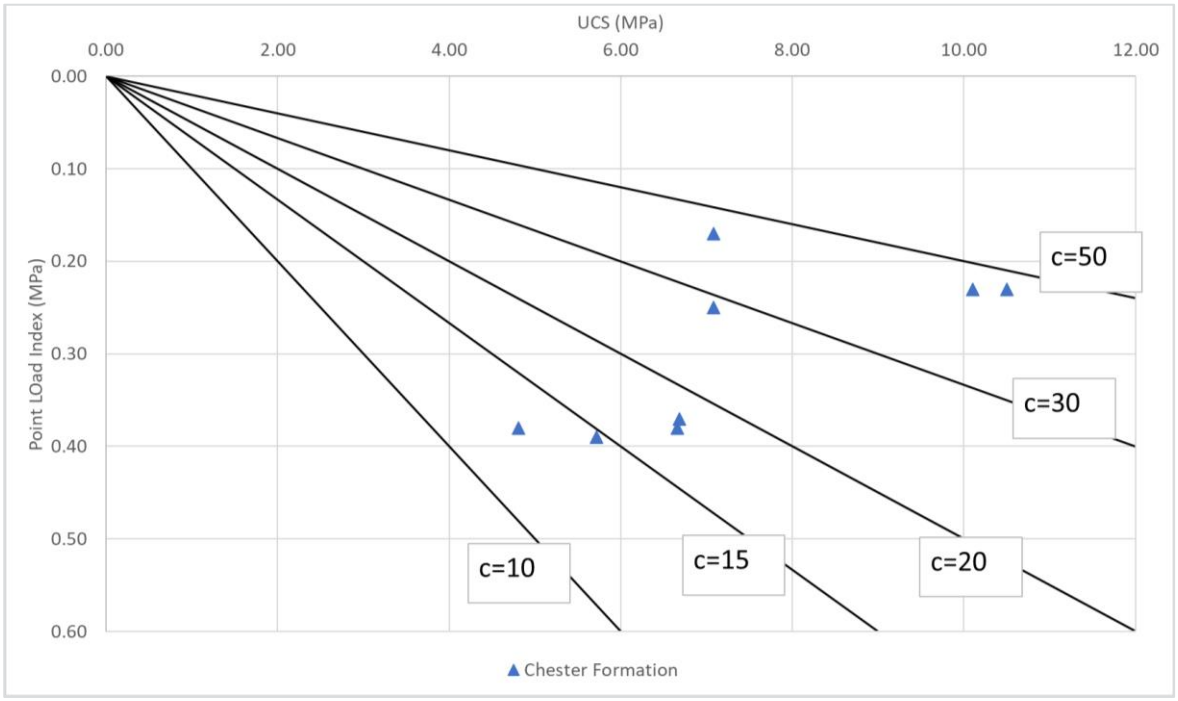


Figure 5.4: UCS- Point Load Test Ratio

Figure 5.5 to Figure 5.6 shows the Uniaxial Compressive Strength versus elevation for Phase 1 and Phase 2 areas, with proposed characteristic values also provided.

Care should be exercised by the designer if extrapolating the characteristic values provided, e.g. extrapolating the UCS value of 3 MPa below 26.5m OD for Phase 2 may not be appropriate given that the data below this elevation is based on only one borehole, MPBH713.

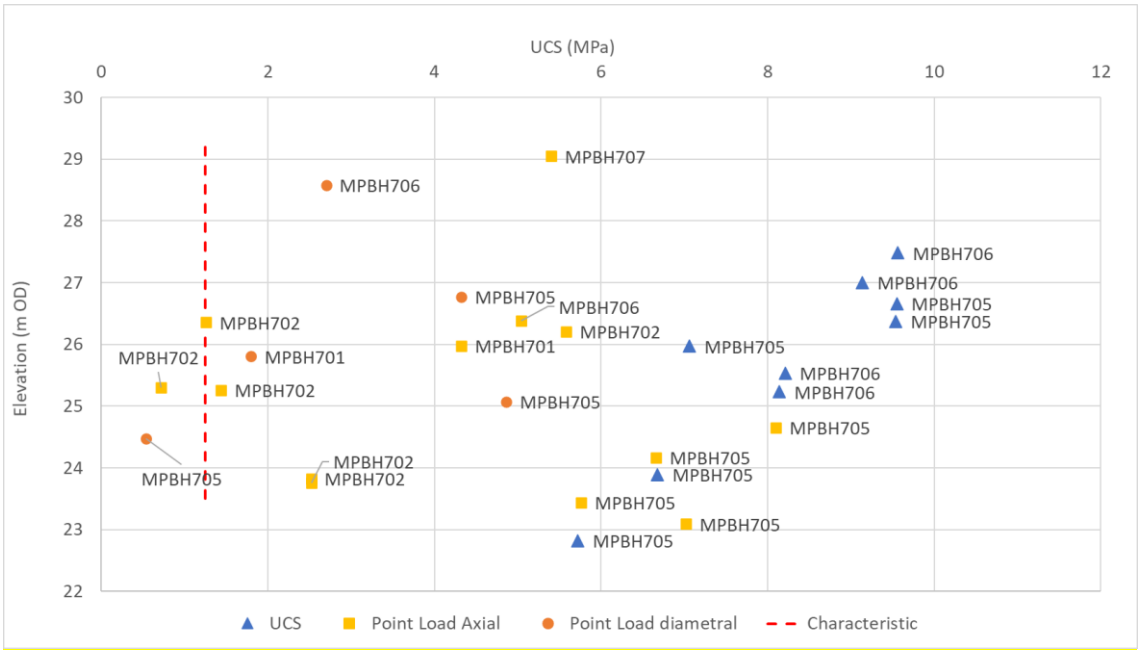


Figure 5.5: Uniaxial Compressive Strength vs. Elevation for Phase 1

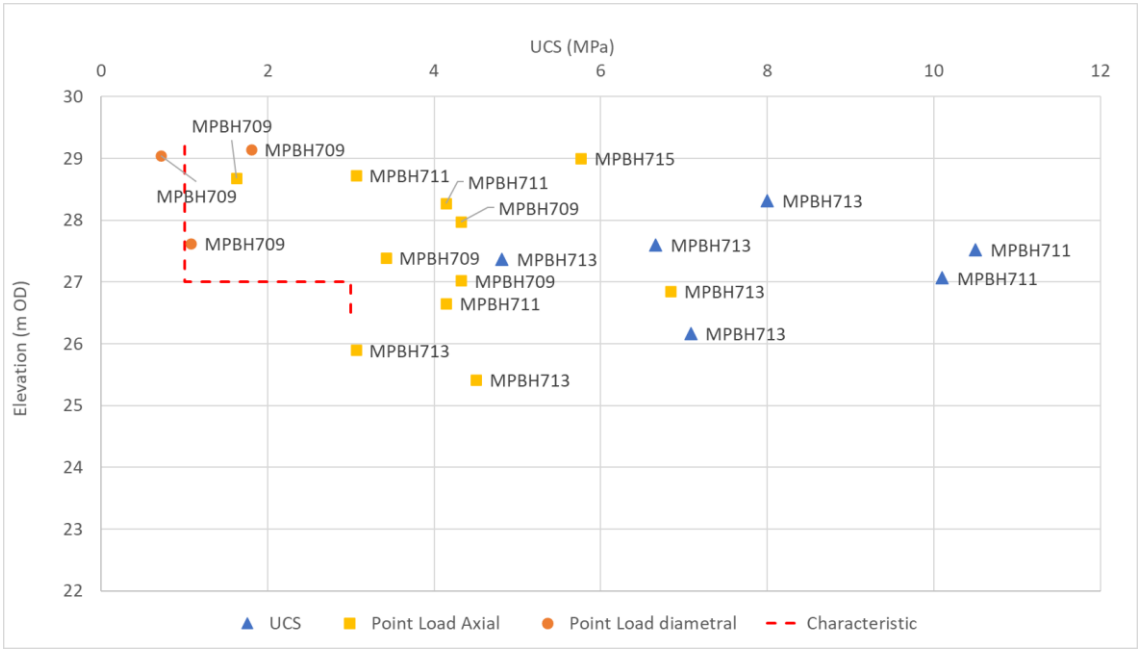


Figure 5.6: Uniaxial Compressive Strength vs. Elevation for Phase 2

5.7.11 Rock mass characteristics

Rock coring was undertaken in the multi-purpose boreholes to provide additional information on the rock mass properties of the Bedrock, the Chester Formation. The intact rock strength results and derived values are presented in Table 5-21.

The Chester Formation encountered in the 2021 investigation generally comprised an 'extremely weak to medium strong reddish orange medium to coarse sandstone'. Discontinuities were logged as either medium or closely to extremely closely spaced.

Table 5-21: Rock mass characteristics

Stratum	TCR (%) Range [avg.]	SCR (%) Range [avg.]	RQD (%) Range [avg.]	Fracture Spacing IF (mm)		
				Min Range [Avg.] *	Average Range [Avg.] *	Max Range [Avg.] *
Chester Formation Phase 1 Area	0 – 100 [68.3]	0 – 95 [38.6]	0 – 65 [19.4]	NI^ - 260 [114]	NI – 125 [66]	NI – 50 [20]
Chester Formation Phase 2 Area	0 – 100 [41.6]	0 – 97 [27.4]	0 – 61 [11.9]	NI - 280 [78]	NI – 130 [39]	NI – 111 [31]

** Average value provided does not include non-intact core.*
^ NI -not intact.

6. GEOTECHNICAL ASSESSMENT

6.1 Geotechnical categorization of the proposed development

Eurocode 7, Section 2 advocates the use of geotechnical categorization of the proposed structures to establish the design requirements.

The proposed development comprises two 7-storey apartment buildings as part of Phase 1 and two 3-storey and two 7-storey apartment buildings as part of Phase 2, with associated access, car parking, soft landscaping areas and retaining structures. The site slopes significantly from the South (Rochdale Road) to the North (Williamson Street), and it is understood that site levels will be raised by up to 6m with fill supported by cantilever retaining walls.

Based on the above, for the purposes of this investigation, the proposed structures have been classed as Geotechnical Category 2.

For Category 2 structures, the Geotechnical Category should be re-assessed at the design stage and specific geotechnical design (in addition to this investigation), is required.

Following ground investigation and as part of the assessment provided in the following section, the preliminary geotechnical hazard identification undertaken in Section 3.3 has been updated.

Assessment has been undertaken in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622. The preliminary Geotechnical Risk Register following investigation is provided in Appendix G (Table J.3) and will need to be updated during future design works.

6.2 Characteristic design values

In accordance with BS EN ISO 1997-1 (EC 7), Hydrock consider the proposed structures would be classified as Category 2 structures. As part of the separate geotechnical design, the designer should determine the geotechnical design values.

Table 6.1 provides characteristic geotechnical values to assist the designer. These are based on laboratory testing, *in situ* testing and by professional judgement using published data together with knowledge and experience of the ground conditions. Care should be exercised in using these assumed soil strength parameters for any purpose beyond the scope of this report because it may be that additional sampling and testing are required for certain purposes. The reader should refer to the original test results summarised in Section 5 and provided in Appendix B and Appendix C.

Table 6.1: Characteristic geotechnical values

Parameter	Bulk unit weight kN/m³	Effective angle of internal friction °	Effective cohesion kN/m²	Undrained shear strength kN/m²	Coefficient of compressibility m²/MN
Stratum	γ [a]	ϕ' [b c]	c' [d]	c_u [e]	m_v [f]
Made Ground (cohesive)	19	24	0	15	0.35
Made Ground (granular)	19	29	0	-	-
Glacial Till	20	25	0	Figure 5.2	0.20

Parameter Stratum	Bulk unit weight kN/m³ γ [a]	Effective angle of internal friction ° ϕ' [b c]	Effective cohesion kN/m² c' [d]	Undrained shear strength kN/m² c_u [e]	Coefficient of compressibility m²/MN m_v [f]
Weathered Chester Formation	20	36	0	-	-
Chester Formation	24	Uniaxial compressive strength as provided in Figure 5.5 to Figure 5.6			

a. Measured as part of the triaxial strength test and estimated based on the recommendations of BS 8004-2015.

b. Internal friction (φ') values for the granular in situ *material derived from SPT data following the recommendations of Peck et al., (1967).*

c. Internal friction (φ') values for the cohesive in-situ material derived from BS 8004-2015, where φcv' is derived from plasticity index. The use of φcv' in the analysis is considered to provide a conservative estimate of φ'.

d. BS 8002:1994 Code of practice for Earth retaining structures, British Standards institution.

e. Site measurements and laboratory data.

f. Laboratory data.

6.3 Groundwork

6.3.1 Site preparation

Buried obstructions were encountered during this investigation associated with foundations of old buildings, tanks, services etc., and there is a possibility of further such obstructions being encountered.

Topsoil should be removed from beneath all building and hardstanding areas.

6.3.2 Groundworks

Following breaking out of hardstanding and obstructions, excavation of shallow soils should be readily undertaken by conventional plant and equipment. However, excavation through any buried construction may require heavy-duty excavation plant/ripping plant/blasting/the use of specialist breaking equipment.

Significant collapse of trial pit faces was noted during trial pit excavation. This was noted particularly in the granular Made Ground.

Random and sudden falls should be expected from the faces of near vertically sided excavations put down at the site.

Temporary trench support, or battering of excavation sides, is recommended for all excavations that are to be left open for any length of time and will definitely be required where man entry is required. Particular attention should be paid to excavation at, or close to, site boundaries/adjoining existing roads/structures/buildings, where collapse of excavation faces could have a disproportionate effect.

A risk assessment of the stability of any open excavation should be undertaken by a competent person and appropriate measures adopted to ensure safe working practise in and around open excavations. Further guidance on responsibilities and requirements for working near, and in, excavations can be obtained from the Construction Design and Management Regulations (2015); Construction Information Sheet 47: Inspections and Reports (2005) and HSG47: Avoiding Danger from Underground Services.

To ensure no loads are imposed on the sides of the excavation, spoil should not be placed immediately adjacent to the excavation. Spoil should be placed a suitable distance from the side of the excavation (as assessed by a competent person).

Based on site observations, the rate of water ingress to the proposed excavations is likely to be slow. In these circumstances, groundwater control by sump pumping is likely to be sufficient.

However, it should be recognised that groundwater levels may vary from those at the time of the investigation, for example in response to seasonal fluctuations and the timing of construction may dictate the extent of groundwater control required.

Any water pumped from excavations may need to be passed via settlement tanks (to reduce suspended solids) before being discharged to the sewer. Discharge consents may also be required. In addition, due to petroleum hydrocarbons / solvents in the groundwater, any water pumped from excavations may need to pass via a treatment plant to reduce concentrations to acceptable limits.

6.3.3 *Earthworks/reuse of site-won materials*

Whilst Hydrock has not been provided with the specific requirements for earthworks (cut / fill depths and volumes), it is understood earthworks are proposed at the site, with up to 6m of fill proposed to both sides of the building and the rear to bring the levels up to 2 storeys above the ground level. An initial assessment has been completed on the potential to reuse site-won materials as a General Fill material. This is summarised in Table 6.2.

The classification of materials depends on both the proposed end use and whether the material will meet the performance requirements of that end use. Based on Hydrock's understanding, the following assessment is based on General Fill for external yard areas and Structural Fill for the building footprint.

An initial assessment of classification data (see Section 5.7 and Appendix C) has been completed based on Hydrock's understanding of the development and the potential to reuse site-won materials as an engineered fill material. This is summarised in Table 6.2.

Table 6.2: Preliminary earthworks assessment

Stratum	Proposed end use	Preliminary classification (SHW Series 600)	Comment	Suitability for improvement by the inclusion of binders
Topsoil	Open Space	Class 4 (Landscape Fill)	Unsuitable for General Fill due to high organic content. Can only be used in areas which are not sensitive to settlement.	Unlikely to be suitable
Made Ground	External Areas	Class 1 or 2 General Fill	Material has an inherently varied nature and strength characteristics. May be suitable subject to further detailed design and testing. Processing to remove oversize and deleterious material required.	Unlikely to be suitable due to the high sulphate concentrations.
	Structural Fill	Class 6 Structural Fill		n/a
		Class 7* Structural Fill		Unlikely to be suitable due to the high sulphate concentrations.

Stratum	Proposed end use	Preliminary classification (SHW Series 600)	Comment	Suitability for improvement by the inclusion of binders
Glacial Till	External Areas	Class 2A General Fill	Wet of optimum, moisture conditioning (e.g., lime modification) likely to be required.	Likely to be suitable, subject to further detailed design and testing.
		Class 2B General Fill	Dry of optimum, moisture conditioning (e.g., wetting down by bowser and rotavator) likely to be required.	n/a
Glacial Till	Structural Fill	Class 7 Structural Fill		Likely to be suitable, subject to further detailed design and testing.

The earthworks will need to be undertaken under a Materials Management Plan (see Section 8.4).

Before the use of hydraulic binders is approved, comprehensive testing will need to be completed by a specialist Contractor to satisfy both themselves and the Engineer of the suitability of the soils for treatment and to confirm that the requisite end-performance of the material is achievable. In all instances where improvement by the inclusion of binders is considered, a mix design is required and as part of this design, samples should be checked for swelling, even where very low sulphate values are recorded.

It is unlikely that the Made Ground will be suitable for treatment using hydraulic binders due to the high sulphate concentrations.

Where it is proposed to reuse site won materials as an engineered fill it will be necessary to develop an appropriate Site-Specific Earthworks Specification. The basis for the Specification should be BS 6031:2009 and the latest version of the SHW, Series 600 Earthworks. Once site proposals have been further defined more specific consideration will need to be given to the reuse of materials and reference should be made back to Hydrock.

6.3.4 Consolidation settlement from land raising

It is understood that site levels will be raised by up to 6.0m, which is likely to lead to consolidation settlement of the cohesive Made Ground and Glacial Till. Based on site observations and test results/published data, it is anticipated that settlements of up to 300mm may occur in this part of the site, over an estimated period of between 15 and 30 months.

Options available to reduce the above settlements to acceptable limits include:

- pre-load and surcharge (with or without the use of prefabricated vertical drains);
- the use of Vibro Stone Columns (VSC's) and a load transfer platform; and/or
- excavation and replacement of any soft cohesive Made Ground.

The timescale for settlement to occur may be able to be reduced to between 3 and 6 months by the use of band drains and surcharging.

A separate geotechnical design will be required to fully assess the impact of settlement and to design the ground improvement works. Site monitoring during the earthwork's construction will be required to confirm the required settlements have been achieved.

6.4 Slope stability

There are no significant existing slopes on the site and, based on a review of proposed levels, no significant slopes are proposed, other than those to the attenuation basins, which are all less than 1:3 (vertical to horizontal). Therefore, Hydrock does not believe the existing or planned slopes will present a significant constraint to the development. However, the above preliminary conclusions should be reviewed as part of the separate geotechnical design.

6.5 Retaining walls

With regard to the proposed retaining walls, Hydrock understand there will be a number of significant retaining walls (up to 6m retained height) around the perimeter of the buildings in the southern part of the site, to support the fill material that will be used for the land raising in this area. The walls gradually reduce in height towards the north of the buildings as the land raising reduces.

Where the proposed retaining walls are greater than 2.0m high, they are considered to be Category 2 structures and further geotechnical design will need to be considered. The designer is referred to characteristic values provided at Table 6.1.

It is understood that the retaining walls around the building perimeter will all be RC cantilever retaining walls supported on piled foundations.

It is recommended that all retaining walls are individually designed using site specific design criteria, assessed as part of the required geotechnical design. Associated as-built records will be required for verification purposes.

Allowance should be made in the design of the retaining walls for adequate drainage behind the structure, or for water seepage through the face of the wall. The overall stability of the retaining wall is not considered in this report. The stability of the retaining wall should be considered in the design process.

Care will need to be taken to ensure that any works close to the site boundaries will not destabilise or cause damage to neighbouring properties including the existing boundary walls and fences. A structural survey is recommended to ensure that existing walls will not be adversely affected.

6.6 Mineworkings

The site lies within a coal mining reporting area and therefore British Coal were consulted by Parkman Consulting in 1992 whilst they completed their ground condition desk study. British Coal provided a coal risk document referenced PCE/MAN/12278/2/6 DATED 21ST September 1992.

The report indicates that three seams of coal have been mined at 290m to 880m depth beneath or within vicinity of the property, last dated 1967. Ground movement from these past workings should by now have ceased.

The report indicates that property is clear of disused mine shafts and adits shown on British Coal's records.

6.7 Foundation recommendations

In accordance with EC7, BS EN 1997-1+A1 (2013), the proposed structures e.g., 3- and 7-storey apartment buildings are considered to be Geotechnical Category 2. As such, foundation recommendations are presented to aid development proposals only and separate geotechnical design will be required.

6.7.1 Foundation Type

The Made Ground is considered unsuitable in its present condition for use as founding soils on the basis of its unpredictable nature and likely deposition in an uncontrolled manner and should be fully penetrated by all new foundations or excavated, screened, processed and re-engineered to create the development platform.

On the basis that the Made Ground and Glacial Till would not provide sufficient bearing resistance to support the structural loadings, the foundations will likely comprise piles.

6.7.2 Piled foundations

Piled foundations are recommended for the proposed structures. Depending on column loads and layouts, piles should extend through the Made Ground and Glacial Till and to a suitable depth into the underlying Chester Formation.

A review of pile types that may be appropriate for Gould Street was undertaken in the Preliminary Advice Note on Piling (document reference 21353-HYD-XX-XX-RP-GE-0004), with advantages and disadvantages of each method provided. However, the choice of piling system should be undertaken by a specialist piling Contractor and the design of piles is beyond the scope of this report.

Based on the noted disadvantages associated with driven piling the method is unlikely to be feasible given the site constraints, in particular buried obstructions and the vibration effects on the adjacent gas pipelines.

CFA or auger displacement piling may be suitable methods however rotary bored piling would be preferred from a geotechnical standpoint given that this method is more capable of forming a rock socket and stands a better chance of being able to bore through obstructions. That said, it is noted that rotary boring is likely to be the most expensive method of piling so there would be benefit in undertaking a more detailed options assessment which includes consideration of costing, programme, geotechnical and environmental factors once the Ground Investigation Report and Piling Risk Assessment have been completed.

The decision on pile type and design should take into account the following factors relevant to the site:

- Obstructions in the ground are expected associated with the current and former site uses, which could cause piles to stop shallower than the design depths, or to deviate from the vertical, thereby reducing their capacity. In some circumstances, obstructions can lead to pile breakage.
- Obstructions such as the one encountered in MPBH708 will require further investigation of its extent. Consideration must be given to the need for geophysics, pre-pile probing, and the need for excavations for obstruction removal. Depending on the size/extent of the obstructions, there may be the possibility to leave them in place and pile around them. Carrying out these investigations well in advance of construction will reduce the risk of encountering obstructions during their

construction with resulting delays and cost implications associated with potential redesign of the piles and pile caps and/or removal of the obstructions.

- The requirement for pre-boring due to obstructions also needs to be considered in relation to the selection of type and diameter of piles.
- Liaison with gas utility companies is required to establish the extent of exclusion zones for piling works in the vicinity of gas mains, considering vibration effects on gas mains. This information will need to be taken into account in choice of pile types and also the diameter of piles adjacent to the mains.
- Pile installation can create preferential pathways for the migration of contaminants to the groundwater. The bedrock underlying the application site is classified by the EA as a Principal aquifer, the Sherwood Sandstone Group representing one of the main important aquifers in the UK. A bored or augured piling method would have the added advantage of returning any contaminated material to the surface to be disposed of in a controlled matter, instead of driving it down into the underlying natural subsoils and sandstone aquifer.
- The Piling Risk Assessment to be completed by Hydrock (with input from the Specialist Piling Contractor if possible) will also guide the choice of piles. This can only be completed once the contamination and controlled waters risk assessments have been undertaken.
- Piles should extend a minimum of five pile diameters into the bearing stratum to mobilise sufficient shaft friction and end-bearing resistance to carry the required loads without unacceptable settlement.
- As the piles are to be constructed through Made Ground, with additional fill of up to 6m thickness proposed, piles should also be designed to cater for the potential down-drag effects of negative skin friction on piles from any post-construction settlement.
- Collapse of the pile shaft can be caused by 'necking' of the pile in running sand conditions, leading to pile failure.
- Contamination/aggressive ground conditions will also need to be considered.
- Calculation of end-bearing resistance should take due consideration of the highly variable nature of the Chester Formation, which based on the poor recovery in the ground investigation could be very weak and friable in nature. Uniaxial compressive strength test results and Point Load Tests should be viewed with caution as they represent only the strength of the intact rock that could be recovered from coring for testing.
- Adjacent buildings/ foundations/ infrastructure (e.g., gas mains) and vibration effects.
- A working platform will be required prior to the arrival on site of piling installation plant. This should be designed and installed in accordance with BR470 (BRE 2004) based on data on the specific piling plant to be used in accordance with an FPS certificate for the rig loadings.
- UXO risk will also need to be considered. The online Zetica UXO risk map indicates a moderate UXO risk and the site itself was a known Luftwaffe target in WWII.

All of the above will need to be considered by the Specialist Designer of the piles when choosing the most appropriate method of piling for Gould Street.

Based on the ground model and the geotechnical parameters in Section 5.0, the initial pile capacities for a range of pile diameters and depths are shown in Table 6.3 and Table 6.4. The preliminary safe working loads have been calculated using a global safety factor of 3.0.

The preliminary Safe Working Loads calculated are a guide only and should not be used for design purposes. This preliminary design is based on vertical loading only and considers only the typical ground conditions encountered across Phases 1 and 2. Therefore detailed design will need to consider any lateral load effects on the piles and site-specific ground conditions depending on the specific location of each foundation.

Negative skin friction loading of the piles has not been considered in this preliminary assessment; however, given the thickness of fill proposed at the site, detailed design will need to consider this.

Due to the highly variable nature of the Chester Formation, this preliminary pile design was undertaken considering typical parameters for a very weak sandstone.

The pile design should be undertaken by a specialist based on the specific method appropriate for the type of pile selected, as well as the loading criteria and the serviceability limit states provided by the structural engineer.

Table 6.3: Preliminary safe working loads Phase 1

Pile Length (m)	Preliminary safe working Load (kN)			
	450mm diameter	600mm diameter	750mm diameter	900mm diameter
16.0	460	685	945	1,235
18.0	540	790	1,080	1,400
20.0	720	1,030	1,380	1,760
22.0*	940	1,325	1,745	2,200
24.0*	1,160	1,620	2,115	2,645

Table 6.4: Preliminary safe working loads Phase 2

Pile Length (m)	Preliminary safe working Load (kN)			
	450mm diameter	600mm diameter	750mm diameter	900mm diameter
16.0	460	685	945	1,240
18.0	585	850	1,150	1,485
20.0	805	1,145	1,520	1,925
22.0*	1,025	1,435	1,885	2,370
24.0*	1,245	1,730	225	2,810

* Pile capacities suitable for rotary bored piles only as CFA or displacement auger piles are likely to meet refusal in any medium strength sandstone.

6.7.3 Foundation works risk assessment

A foundation risk assessment will be required to determine if the proposed piling will result in a significant increase in risk of pollution to Controlled Waters.

The foundation works risk assessment should be undertaken in accordance with the risk assessment flowchart from National Groundwater & Contaminated Land Centre Report NC/99/73 (figure 6.1) and

will need to identify what additional risks to the environment piling may introduce and if necessary, identify mitigation measures that will need to be put in place to remove any significant adverse environmental impacts.

6.7.4 Working platform

For piling, a working platform will be required prior to the arrival on site of tracked plant. This should be designed and installed in accordance with BR470 (BRE 2004) based on data on the piling plant in accordance with an FPS certificate for the rig loadings.

Due to the poor ground conditions present on site, the working platform when assessed in accordance with BR470 is expected to be of significant thickness. Additional assessment using proprietary methods or detailed geotechnical modelling (e.g., limit state assessment) may, with the addition of geogrids reduce the working platform thickness.

6.8 Ground floor slabs

In accordance with the NHBC standards, as Made Ground greater than 600mm thick and clay soils of medium volume change potential are present at the site, it is recommended that suspended floor slabs with a void be adopted.

Slabs without a void (ground bearing or suspended cast *in situ* onto the ground) may be used if all of the following criteria are satisfied:

- the foundation depth (such as due to the influence of trees) is less than 1.5m;
- any Made Ground is excavated and suitably designed material is re-engineered;
- any fill is suitable, well-compacted granular material and less than 600mm thick;
- it is demonstrated that the soils are not desiccated and are at their equilibrium moisture content; and
- ground floor construction is not undertaken when the surface soils are seasonally desiccated (i.e., during summer and autumn), unless NHBC is satisfied the soil is not desiccated.

Ground floor slabs should be designed to incorporate any vapour mitigation measures that may be required, as discussed later within this report.

6.9 Roads and pavements

Based on the test results and subject to *in situ* testing during construction, it is considered likely an equilibrium CBR of 3.0% will be achievable over the majority of the site.

Proof rolling of the formation level will be required and any loose or soft spots should be removed and replaced with an engineered fill, in accordance with a suitable Specification. The formation level will also need to be protected during inclement weather from deterioration; all slopes should be trimmed to falls to shed rain water and the surface sealed to limit infiltration.

Prior to the placement of the founding materials and the construction of the road pavement, the sub-formation and formation will need to be inspected and checked in accordance with a suitable specification to ensure the ground conditions are as expected. All testing should be carried out in accordance with DMRB IAN 73/06 to confirm that the ground conditions at time of construction are consistent with the previous design parameters.

In addition, on account of the significant depth of Made Ground in the north of the site and localised areas in the south, it is it is considered that ground improvement will be required even if suitable CBR values exist at the surface or can be engineered by a capping layer and early consultation is recommended.

Where the CBR is found to be less than 3%, the sub-grade may be unsuitable for both the trafficking of site plant and as support for a permanent foundation, without improvement works being undertaken. Improvement works should be carried out in accordance with DMRB IAN 73/06 Rev 1 Chapter 5. In summary, consideration may be given to the following potential remedial techniques:

- excavation and re-engineering or replacement of weaker soils;
- the inclusion of geosynthetic reinforcement within the unbound layers of the capping and sub-grade;
- where cohesive soils are present and they are deemed suitable for treatment with hydraulic binders, to employ modification and/or stabilisation techniques on the formation. Made Ground is, however, unlikely to be suitable for treatment with hydraulic binders due to the high sulphate concentrations; and
- where granular soils are present, de-watering and re-engineering the formation.

6.10 Drainage

Indicative infiltration rates for the ground investigation are summarised in Table 5.9.

Soakaways are considered unsuitable for the site based on the low infiltration rates obtained from testing.

6.11 Buried concrete

Based on guidelines provided in BRE Special Digest 1 (BRE 2005) and the information presented in Section 5.7.9 (Table 5.19):

- The Made Ground can be classified as Design Sulphate Class DS-4 and ACEC Class AC-4.
- The Glacial Till can be classified as Design Sulphate Class DS-1 and ACEC Class AC-1.
- The Chester Formation can be classified as Design Sulphate Class DS-1 and ACEC Class AC-1.
- The piles, which will be constructed through the Made Ground, can be classified as Design Sulphate Class DS-4 and ACEC Class AC-4.

This equates to a Design Chemical Class[2] of:

- DC-4 for the Made Ground.
- DC-1 for the deeper soils (Glacial Till and Chester Formation); and
- DC-4 for piles.

The designer should check and confirm the classification of concrete using the information presented in Appendix B and Appendix C during the design.

[2] The calculated ACEC class can be used in accordance with BS 8500-1+A2 (2019), Table A.9 to select the Designated Concrete (DC) class for an intended working life of 50 years. However, the designer is referred to BS 8500-1+A2 (2019), for full details and notes to Table A.9, including any Additional Protective Measures (APMs).

7. GEO-ENVIRONMENTAL ASSESSMENT

7.1 Updated conceptual model

7.1.1 Updated ground model

The preliminary ground model developed from the desk study and field reconnaissance survey (Section 2.0) has been updated using the findings of the ground investigation and is presented in Section 5. This ground model is the basis for the geo-environmental assessment presented in this section.

7.1.2 Updated exposure model

Following the ground investigation, the plausible contaminant sources, receptors and pathways identified in the preliminary geo-environmental exposure model (Section 3), have been updated or confirmed as follows.

7.1.2.1 Sources

The following sources have been removed:

- Polychlorinated biphenyls (PCB) and oils from transformers in the electricity sub-station on site, laboratory test data indicates no PCB were reported above the limit of detection.
- Thiocyanate within soils from activities relating to the former gas works uses, Thiocyanate was found to be reported either below the limit of detection.

7.1.2.2 Receptors

No potential receptors have been removed from the exposure model.

7.1.2.3 Pathways

The following pathway has been removed:

- Downward migration of contamination within soils into the principal aquifer in the Chester Formation, as it has been confirmed that the Sandstone is separated from surface contamination sources by on average a thickness of greater than 10m of low-permeability Glacial Till and as such there is reduces the likelihood of downward migration.

Using the updated ground model and updated exposure model, generic risk assessment is undertaken as presented below.

7.2 Risk assessment approach

Generic risk assessments have been undertaken in accordance with the principles of LCRM (Environment Agency, 2019) using the CM that has been updated following the ground investigation.

Firstly, the risks associated with the identified potential contaminant linkages have been estimated using standardised methods (typically involving comparison of site data with published 'screening values'). Secondly, where screening values are exceeded, the result has been evaluated in an authoritative review of the findings with other pertinent information to determine whether or not the exceedance is, or is not acceptable in the site-specific circumstances. Further explanation is presented in Appendix I

The data sets used in the assessment comprise the analytical results obtained by Hydrock as listed in Section 4 together with assessment of all historic chemical data from the ground investigation undertaken by Entec (2002 and 2009), AMEC (2011) and WYG (2015), presented in the AMEC verification report (2011).

In cases where unacceptable risks are indicated, actions such as more advanced stages of risk assessment or remediation are proposed in Section 7.12.

7.3 Human health risk assessment

This is a Tier 2 assessment using soil screening values applicable to the residential without plant uptake, CLEA land use scenario.

The soil screening values used are generic assessment criteria (GAC). It should be noted that Category 4 Screening Levels (C4SL) for lead have been used as there is no recognised GAC for lead and the use of the term 'GAC' in this report includes the C4SL for lead.

Statistical testing is used where data sets are suitable. The critical issue is sample numbers. For data sets with low sample numbers, individual sample test results are compared directly with the screening values. Larger and non-targeted data sets are subject to statistical testing.

The phrase 'further assessment required' is used to denote soil concentrations that are equal to, or exceed, a GAC. This does not necessarily mean that the soil is 'contaminated' or not otherwise suitable for use. The assessment and any mitigation required are to ensure the site does not pose an 'unacceptable risk'.

Due to the age AMEC (2011) laboratory limit detections have been preferentially lowered. Also, unlike the Hydrock Default Suites some chemical determinands are missing from the AMEC data sets. As discussed further within Section 7.3.4 the comparison of the AMEC (2011) and Hydrock show similar conclusions.

The results of the assessment are presented in Appendix E.

7.3.1 Averaging areas

The 'averaging areas' used in this report are based on the conceptual model and the proposed development, and are summarised as:

- Topsoil present in the north and north west of phase 1;
- Buried Bituminous Material, locally present in TP704 and TP722 within phase 2;
- Site won gravel, a dark brown/yellowish brown sandy clayey/silty gravel of sandstone present beneath the concrete hardstanding across the site;
- Made Ground across phases 1 and 2;
- Glacial Till; and
- Chester Formation.

7.3.2 Risk estimation (including statistical testing)

7.3.2.1 Statistical assessment

In accordance with the guidance provided by the CIEH (May 2008) the 95th upper confidence level on the true mean (US_{95}) has been calculated from the sample data. Reference to the methodology for statistical assessment is given in Appendix I.

Based on a US_{95} exceedance of the GAC, the pervasive chemicals of potential concern which require further assessment are summarised in Table 7.1.

Table 7.1: Pervasive chemicals of potential concern for which further assessment is required (human health)

Chemical of potential concern	Generic criterion (mg/kg)	Basis for generic criterion	No. samples	Min. (mg/kg)	Max. (mg/kg)	US_{95} (mg/kg)	No. samples exceeding generic criterion
Hydrock 2021							
Made Ground							
Arsenic	40	GAC	30	4.4	170	54.70	9
Benzo(a)anthracene	5.5	GAC	30	<0.05	380	100.35	14
Benzo(a)pyrene	1.5	GAC	30	<0.05	350	91.40	18
Benzo(b)fluoranthene	11	GAC	30	<0.05	310	88.59	12
Benzo(k)fluoranthene	15	GAC	30	<0.05	170	40.49	7
Chrysene	13	GAC	30	<0.05	360	89.23	12
Dibenz (a, h) anthracene	1.3	GAC	30	<0.05	180	47.65	13
Indeno (1,2,3,cd)pyrene	6.3	GAC	30	<0.05	180	47.65	12
Naphthalene	2.3	GAC	30	<0.05	360	84.78	8
Site Won Gravel							
Benzo(a)pyrene	1.5	GAC	11	<0.05	7	4.08	3
Naphthalene	2.3	GAC	11	<0.05	4.3	2.31	1
AMEC 2011							
Made Ground							
Benzo(a)anthracene	5.5	GAC	101	<1	180	39.76	42
Benzo(a)pyrene	1.5	GAC	101	<1	140	30.50	58
Benzo(b)fluoranthene	11	GAC	101	<1	130	30.78	35
Benzo(k)fluoranthene	15	GAC	101	<1	110	21.43	22
Chrysene	13	GAC	101	<1	170	36.54	34
Dibenz (a, h) anthracene	1.3	GAC	101	<1	20	5.66	36
Indeno (1,2,3, cd) pyrene	6.3	GAC	101	<1	110	19.75	36
Naphthalene	2.3	GAC	101	<1	1100	141.06	41
Glacial Till							
Naphthalene	2.3	GAC	47	<1	13	3.46	9

The presence of pervasive arsenic and PAH in Made Ground, presence of PAH in the Site Won Gravel requires further consideration. The presence of naphthalene within the Glacial Till requires further consideration.

7.3.3 Risk estimation (without statistical testing)

7.3.3.1 Hydrock default list of determinands

Based on individual test results that exceed the GAC, the chemicals of potential concern which require further assessment are summarised in Table 7.2

Table 7.2: Chemicals of potential concern for which further assessment is required (human health)

Chemical of potential concern	Generic criterion (mg/kg)	Basis for generic criterion	No. samples	Min. (mg/kg)	Max. (mg/kg)	No. samples exceeding generic criterion
Hydrock 2021						
Glacial Till						
Benzo(a)anthracene	5.5	GAC	5	<0.05	13	1
Benzo(a)pyrene	1.5	GAC	5	<0.05	12	3
Benzo(b)fluoranthene	11	GAC	5	<0.05	11	1
Dibenz (a, h) anthracene	1.3	GAC	5	<0.05	1.7	1
Indeno (1,2,3, cd) pyrene	6.3	GAC	5	<0.05	6.7	1
Naphthalene	2.3	GAC	5	<0.05	8.7	2
Topsoil						
No Exceedances						
Chester Formation						
No Exceedances						

The presence of PAH in Glacial Till requires further consideration.

7.3.3.2 Asbestos

There is visual evidence of asbestos containing materials (ACM) in one exploratory hole location. This location is summarised in Table 7.3. In addition, asbestos has been identified by laboratory testing of soil samples in six locations as provided in Table 7.4.

Table 7.3: Visual evidence of Asbestos Containing Materials

Location	Depth (m bgl)	Comment
MPBH703A	0.20 - 0.40	Possible random suspected cement type asbestos (60 x 80mm, 20 x 30mm and 10 x 15mm)

Table 7.4: Asbestos in soil samples (laboratory testing)

Location	Depth (m bgl)	% Asbestos (w/w)	Comment
Hydrock 2021			
Made Ground			
MPBH703A	0.20 - 0.40	<0.001	Chrysotile
TP704	0.90 - 1.40	0.013	Loose fibrous debris (Chrysotile)
TP711	0.65	<0.001	Loose fibres (Amosite)
WS704	0.90	<0.001	Loose fibres (Amosite)
TP715	0.75	<0.001	Loose Fibres (Chrysotile)
WS701	0.50	<0.0001	Loose Fibres (Chrysotile)

The presence of ACM and asbestos fibres in the Made Ground requires further consideration.

7.3.3.3 Petroleum hydrocarbons (PHC)

Targeted analysis of soils (based on visual / olfactory evidence of contamination and PID readings) from the Made Ground has identified petroleum hydrocarbon exceedances of the following TPH fractions summarised in Table 5.1.

Table 7.5: Chemicals of potential concern for which further assessment is required (human health)

Chemical of potential concern	Generic criterion (mg/kg)	Basis for generic criterion	Min. (mg/kg)	Max. (mg/kg)	Locations of exceedances
Hydrock 2021					
Made Ground					
Aliphatics >EC8-EC10	27	GAC	71	71	TP713 (1.40-1.60m)
Aliphatics >EC12-EC16	24	GAC	26	370	WS704 (0.90m), TP713 (1.40-1.60m), TP716 (0.50m)
Aromatic >EC10- EC12	250	GAC	370	370	WS704 (1.20m)
Aromatic >EC16- EC21	1900	GAC	2,700	2,700	WS704 (0.90m)
Aromatic >EC21- EC35	1900	GAC	2,100	2,100	WS704 (0.90m)
Glacial Till					
No Exceedances					
Chester Formation					
No Exceedances					
Site Won Gravel					
No Exceedances					
AMEC, 2011					
Made Ground					
Aliphatics >EC12-EC16	24	GAC	120	310	HDP301 (0.60-0.80m), WS301 (1.50-1.70m)
Glacial Till					
No Exceedances					

The presence of petroleum hydrocarbons within the Made Ground requires further consideration.

7.3.3.4 Volatile organic compounds - soils

As shown in Table 7.6, concentrations of benzene and VOC have been found in excess of the GAC for the indoor air pathway.

Table 7.6: Locations where Benzene and VOC concentrations are recorded above the indoor air GAC

Exploratory Location and Depth (m bgl)	Determinand	GAC (mg/kg)	Concentration (mg/kg)
Hydrock 2021			
Made Ground			
TP713 (1.40-1.60m)	Benzene	2	3.7
WS704 (1.20m)	Benzene	0.38	0.55
TP713 (1.40-1.60m)	1, 2, 4-Trimethylbenzene	0.58	6
Site Won Gravel			
No Exceedances			
Glacial Till			
No Exceedances			
Chester Formation			
AMEC, 2011			
Made Ground			
WS01 (1.60-1.80m)	Benzene	2	2.7
No Exceedances			
Glacial Till			

During the Hydrock ground investigation other VOC were found above the limit of detection within the Made Ground and Glacial Till, but these do not have specific generic assessment criteria. These include n-propyl benzene between (0.0039 and 0.65 mg/kg), 1, 3, 5- Trimethylbenzene between 0.0091 and 2.10mg/kg) and p-Isopropyltoluene at 0.24 mg/kg. These are considered low concentrations and do not need further consideration.

The presence of VOCs, Benzene and 1, 2, 4-Trimethylbenzene requires further consideration.

7.3.3.5 *Semi Volatile organic compounds - soils*

Chemical analysis undertaken by Hydrock on samples of Made Ground, Site Won Gravel, Glacial Till and Chester Formation found no elevations for SVOC with specific generic assessment criteria.

Concentrations of SVOC were encountered that have no generic assessment criteria and those considered above low level i.e., >20 mg/kg are summarised below in Table 7.7.

Table 7.7: SOC concentrations recorded above the limit of detection

Exploratory Location and Depth (m bgl)	Determinand	Concentration (mg/kg)
Hydrock 2021		
Made Ground		
WS704 (1.20m)	4- Chloroaniline	140
TP713 (1.40-1.60m)	2- Methylnaphthalene	100
WS704 (1.20m)		130
MPBH711 (3.70m)		38
TP713 (1.40-1.60m)	Dibenzofuran	64
WS704 (0.90m)		61
WS704 (1.20m)		56
MPBH711 (3.70m)		32
TP713 (1.40-1.60m)	Carbazole	32
WS704 (0.90m)		62
WS704 (1.20m)		43
MPBH711 (3.70m)		22
WS704 (0.90m)	Anthraquinone	50

The presence of SVOCs within the Made Ground at WS704, TP713 and MPBH711 requires further consideration.

7.3.3.6 *Other Organic*

As shown in Table 7.8, concentrations of other organics have been found in excess of the GAC.

Table 7.8: Other Organics exceeding generic assessment criteria

Exploratory Location and Depth (m bgl)	Determinand	GAC (mg/kg)	Concentration (mg/kg)
Hydrock 2021			
Made Ground			
WS704 (1.20m)	Styrene	52	330

Concentrations of other organics were encountered that have no generic assessment criteria and those considered above low level i.e., >20 mg/kg are summarised below in Table 7.7.

Table 7.9: Other Organics recorded above the limit of detection

Exploratory Location and Depth (m bgl)	Determinand	Concentration (mg/kg)
Hydrock 2021		
Made Ground		
TP713 (1.40-1.60m)	Ammoniacal Nitrogen as NH4	330
Glacial Till		
WS702 (3.50-3.70m)	Ammoniacal Nitrogen as NH4	25

The presence of Ammoniacal Nitrogen within the Glacial Till at WS702 is considered marginal and does not require further consideration.

The presence of other organics within the Made Ground at WS704 and TP713 requires further consideration.

7.3.3.7 Phenols

Within TP713 between 1.40m and 1.60m bgl, phenol was encountered at 22mg/kg. Within WS704 at 1.20m bgl cresols (o-, m-, p-) and phenol were encountered at 14mg/kg. These concentrations are marginal and do not require further consideration.

7.3.4 Risk evaluation

The screening exercise has identified pervasive PAH, arsenic, asbestos, petroleum hydrocarbons, benzene and 1,2 4- Trimethylbenzene in the Made Ground at concentrations above the GAC. There are also elevated concentrations of elevated concentrations of SVOC, styrene and ammoniacal nitrogen in the Made Ground. Also, there are exceedances for PAH within the Glacial Till at concentrations above the GAC. These are considered further here to assess if the exceedance may be acceptable with respect to the proposed development. The phrase 'further assessment' does not necessarily mean that the soil is 'contaminated' or not fit for use.

7.3.4.1 Asbestos

There was one location MPBH07A between 0.20m and 0.40m bgl where suspected Asbestos Containing Materials are present. In addition, asbestos fibres (between <0.001%v/v and 0.013%v/v of chrysotile and amosite) have been detected in six samples of the Made Ground.

Hydrock consider it plausible for asbestos to be present in any of the Made Ground soils and asbestos, (even at low concentrations), represents an unacceptable risk and mitigation measures will be required in this area of the site.

7.3.4.2 PAHs in Made Ground

The Made Ground is pervasive for PAH with significant elevations. These significant exceedances are considered to be an unacceptable risk, which requires mitigation for the proposed end use.

7.3.4.3 PAHs in Site won gravels

Benzo(a)pyrene is present in the Site Won Gravels with a US_{95} of 4.08mg/kg, which is considered a significant exceedance of the GAC (1.5mg/kg). Given that the site won-gravels are likely to be placed below hardstanding either under roads/pavements or behind the retaining the elevated concentrations of benzo(a)pyrene are not considered to pose a risk to human health and no further mitigation measures are required.

Naphthalene is present in the Site Won Gravels with a US_{95} of 2.31mg/kg, which is considered a marginal exceedance of the GAC (2.30mg/kg). This is a very slight exceedance and is considered not to represent a risk to end users. Hydrock believes mitigation measures with regards to naphthalene are unnecessary.

7.3.4.4 Arsenic in Made Ground

The Made Ground is pervasive for arsenic with significant elevations. There were up to nine exceedances which are considered to be an unacceptable risk, which requires mitigation for the proposed end use.

7.3.4.5 PAHs in Glacial Till

Concentrations of PAH within the Glacial Till are considered to be low level and given the absence of PAH within the Chester Formation are not considered mobile. Also, the depths of the exceedances are such that they are unlikely to pose a risk to human health. These low levels of PAH are not considered to represent a risk to end users. Hydrock believes mitigation measures with regards to PAH in the Glacial Till are unnecessary.

7.3.4.6 Petroleum hydrocarbons

Elevated petroleum hydrocarbons were encountered within the Made Ground at TP713 between 1.40m and 1.60m, TP716 at 0.50m, WS704 between 0.90m and 1.20m, WS301 between 1.50m and 1.70m and HDP301 between 0.60m and 0.80m bgl.

Also, visual and olfactory evidence of hydrocarbon contamination was recorded in the Made Ground generally between 0.50m and 1.50m bgl with some localised deeper olfactory odours.

Visual evidence of petroleum hydrocarbons contamination was noted on the top of the Glacial Till locally and has not migrated deeper into the Glacial Till. Hydrock believes mitigation measures are unnecessary for the Glacial Till.

The elevated petroleum hydrocarbons coupled with the olfactory and visual evidence of contamination within the Made Ground present a potentially unacceptable risk and requires mitigation.

The locations of elevated petroleum hydrocarbons are shown on the Phase 1 and Phase 2 Contamination Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1012) in Appendix A.

7.3.4.7 Volatile and Semi Volatile organic compounds – soils

As shown in Table 7.6, concentrations of VOC in soils have been found in excess of the GAC for the indoor air pathway. Elevated concentrations of benzene were found at WS104 at 1.20m bgl and WS01 between 1.60m and 1.80m bgl. Elevated benzene and 1, 2, 4-trimethylbenzene were present in TP713 between 1.40m and 1.60m bgl.

In TP713 the elevated concentrations of benzene and 1, 2, 4-trimethylbenzene were couple with an elevated PID reading at 454.2ppm and within WS704 the elevated benzene was couple with an elevated PID reading of 41.8ppm.

As shown in Table 5.11, the Hydrock (2021) and Entec (2002) ground investigations recorded elevated PID readings within the Made Ground at multiple location between 23.8ppm up to 880ppm. These

could be indicative of either the presence of volatile organic compounds or low-end volatile hydrocarbon fractions.

Given the sites former usage as part of the gas works site including various tanks throughout time and also the benzol plant formerly present in the centre of phase 1, the presence of further locations of elevated VOC or low-end hydrocarbon fractions cannot be discounted.

Concentrations of SVOC were present >20mg/kg within WS704 between 0.90m and 1.20m, TP713 between 1.50m and 1.60m and MPBH711 at 3.70m bgl.

Given that the vast majority of the human health risk from vapours is attributed to indoor air pathways, then the installation of a suitable VOC vapour resistant barrier membrane will mitigate this risk.

The requirement for a vapour resistant membrane may be removed via:

- The derivation of site-specific acceptability criteria for vapours in a DQRA considering parameters such as the proposed building type, depth to groundwater, foundation and soil types, or
- The collection and assessment of vapour samples, compared against the relevant criteria.

There is considered to be no significant risk to the residential properties located down-gradient from the site as the GAC are not exceeded on the down-gradient site boundary.

7.3.4.8 Other Organic in the Made Ground

Ammoniacal Nitrogen was found within TP713 between 1.40m and 1.60m and WS702 between 3.50m and 3.70m bgl.

Given the depth of these concentrations they are not considered to pose a risk to human health. Also due to the extent of Glacial Till underlying the Made Ground >10m they are not considered to pose a risk to the principal aquifer in the Chester Formation.

Styrene was encountered locally in WS704 at 1.20m bgl, the elevation was 6x the GAC at 330mg/kg vs 52 mg/kg. The localised presence of styrene is considered to be an unacceptable risk, which requires mitigation for the proposed end use.

7.4 Plant life risk assessment

7.4.1 Risk estimation

Priority phytotoxic chemical concentrations have been screened against published values to determine the likely risk to plant growth and the findings presented in Appendix E. As with human health, statistical testing is used where data sets are suitable, otherwise individual sample test results are compared directly with the screening values.

Based on test results that exceed the GAC, the chemicals of potential concern which require further assessment are summarised in Table 7.10.

Table 7.10: Chemicals of potential concern for which further assessment is required (risk to plants)

Chemical of potential concern	Generic criterion (mg/kg)	Basis for generic criterion	No. samples	Min. (mg/kg)	Max. (mg/kg)	No. samples exceeding generic criterion
Topsoil						
Boron	3	New Zealand timber 1997	1	8.4	8.4	1

Chemical of potential concern	Generic criterion (mg/kg)	Basis for generic criterion	No. samples	Min. (mg/kg)	Max. (mg/kg)	No. samples exceeding generic criterion
Glacial Till						
No Exceedance						

7.4.2 Risk evaluation

Within the topsoil, concentrations of boron are slightly elevated when compared to the GAC. Detriment to plant life is difficult to quantify and many of the GAC are based on agricultural crop yields rather than harm to particular plant species. As the exceedance is slight and the vegetation on site did not show any signs of physical distress, Hydrock does not believe there to be an unacceptable risk to plant life from contamination and no additional consideration is required with regard to risks to plant life.

The Made Ground is considered to be unsuitable as a subsoil due to the amount of brick, concrete and man-made constituents. Also, the Glacial Till is present at such a depth that the cut/fill is unlikely to produce quantities of Till to be utilised within soft landscaping areas. Topsoil is also only present in small volumes on the site.

Therefore, there will be a requirement to import subsoil and topsoil as a suitable growing medium for the landscaped areas.

The requirement for mitigation of risk to human health (as discussed in Section 7.12) will also serve to mitigate risks to plant life.

7.5 Pollution of controlled waters risk assessment

7.5.1 Risk estimation

The risks to groundwater and surface water from contaminants on site have been assessed in accordance with the Environment Agency (2006) Remedial Targets Methodology (RTM).

Site contaminant loadings are compared with relevant screening values (Water Quality Targets), which are linked to the Conceptual Model.

Acceptable WQT are defined for protection of human health (based on Drinking Water Standards (DWS)) and for protection of aquatic ecosystems (Environmental Quality Standards (EQS)).

As related specifically to this site, the data are compared with criteria selected in accordance with the methodology presented in Appendix I This methodology involves selecting which of several alternative risk scenarios apply in this case. The assessment is presented in Table 7.11 below, with the justification for the scenarios selected explained in the following text:

- The site is underlain by a principal aquifer within the Chester Formation which may be subject to future groundwater abstraction.
- Groundwater may provide baseflow to River Irwell to the west / southwest of the site.

Table 7.11: Summary of water quality risk assessment protocol

Hydrock scenario	Water body receptors	Secondary receptors	Example contaminant linkages	RTM level and data used	Water quality targets
D	Groundwater. Surface water.	Human health (abstraction). Aquatic ecosystem.	Contaminants from site leach or seep into a groundwater body that feeds inland surface water by base flow. The surface water may be used for human consumption and is an aquatic ecosystem.	RTM Level 2 - Groundwater. Direct comparison of surface water samples	DWS EQS (inland)
Notes: Some EQS are water hardness dependent. This is measured either in the receiving surface water or in groundwater (if it is part of the pathway), or is estimated from national maps. Inland waters EQS applicable to freshwater, 'other' waters EQS applicable to coastal or transitional waters. This table and the results of the assessment are considered as a first screening for potential risks of pollution of Controlled Waters. More specific requirements may be stipulated by the relevant Agency.					

The results of the screening assessment are presented in Appendix E and are summarised in Table 7.12.

There are no WQT for petroleum hydrocarbon fractions in water. However, because of the sensitivity of the water environment to petroleum hydrocarbons, an initial screening exercise is also included in Table 7.12 irrespective of the assessment scenario(s) stated in Table 7.11. Hydrock has calculated risk-based guidelines for drinking water based on a methodology proposed by the WHO and using the tolerable daily intakes for the various TPH fractions as used in the derivation of the soil GAC. This is explained in Appendix I The results are included in Table 7.12.

In some instances, the reporting limit (or detection limit) quoted by the laboratory may be greater than the WQT that it is being assessed against. As the current exercise is an initial screening assessment, further assessment of these elements has not been undertaken.

Table 7.12: Chemicals of potential concern for which further assessment is required (controlled waters)

Chemical of potential concern	Water quality target (WQT) (µg/l)	Basis for water quality target	No. samples	No. samples above LoD	Min. (µg/l)	Max. (µg/l)	No. samples exceeding WQT and above LoD
Perched Groundwater in the Made Ground							
Copper	1	EQS	1	1	2.4	2.4	1
Manganese	50 123	DWS EQS	1	1	870	870	1 1
Chloride	250,000 250,000	DWS EQS	1	1	450,000	450,000	1 1
Nitrite	250,000 400,000	DWS EQS	1	1	530,000	530,000	1 1
Anthracene	0.1	EQS	1	1	0.44	0.44	1
Benzo(a)pyrene	0.01 0.00017	DWS EQS	1	1	0.89	0.89	1 1
Naphthalene	0.0063	EQS	1	1	1.98	1.98	1
Ali >EC12-16	10	Withdrawn PWS*	1	1	50	50	1
Ali >EC16-35	10	Withdrawn PWS*	1	1	300	300	1

Chemical of potential concern	Water quality target (WQT) (µg/l)	Basis for water quality target	No. samples	No. samples above LoD	Min. (µg/l)	Max. (µg/l)	No. samples exceeding WQT and above LoD
Aro >EC12-16	10	Withdrawn PWS*	1	1	30	30	1
Aro >EC16-21	10	Withdrawn PWS*	1	1	40	40	1
Aro >EC21-35	10	Withdrawn PWS*	1	1	70	70	1
Groundwater in the Glacial Till							
Cadmium	0.08	EQS	7	5	<0.02	1.4	4
Cobalt	3	EQS	7	7	0.3	5	1
Chromium III	4.7	EQS	7	6	<0.2	8.6	1
Copper	1	EQS	7	7	0.8	3.5	4
Mercury	0.07	EQS	7	1	<0.05	0.16	1
Manganese	50 123	DWS EQS	7	7	31	1,200	5 4
Nickel	4	EQS	7	7	1.2	11	1
Cyanide (Free)	1	EQS	7	1	<1	1.4	1
Cyanide (total)	50	DWS	7	6	2	120	1
Sulphate	250,000	DWS	7	7	18,200	322,000	2
Anthracene	0.1	EQS	7	1	<0.01	1.36	1
Benzo(a)pyrene	0.01 0.00017	DWS EQS	7	2	<0.01	7.59	2 2
Fluoranthene	0.0063	EQS	7	3	<0.01	11	3
Naphthalene	2	EQS	7	1	<0.01	2.45	1
Ali >EC10-12	10	Withdrawn PWS*	7	1	<1	190	1
Ali >EC12-16	300 10	Hydrock DWS** Withdrawn PWS*	7	2	<1	370	1 2
Ali >EC16-35	10	Withdrawn PWS*	7	3	<10	1,900	3
Aro >EC10-12	10	Withdrawn PWS*	7	1	<10	40	1
Aro >EC12-16	90 10	Hydrock DWS**	7	1	<10	170	1 1
Aro >EC16-21	90 10	Withdrawn PWS*	7	1	<10	200	1 1
Aro >EC21-35	90 10	Hydrock DWS**	7	1	<10	700	1 1
Groundwater in the Chester Formation							
Silver	0.05	EQS	12	1	<0.05	20.5	1
Cadmium	0.08	EQS	12	10	<0.02	0.37	5
Cobalt	3	EQS	12	12	0.4	16	6
Chromium (III)	4.7	EQS	12	12	1	8	6
Copper	1	EQS	12	12	1.3	5.6	12
Mercury	0.07	EQS	12	2	<0.05	0.8	2
Manganese	50 123	DWS EQS	12	12	31	2,400	10 9
Nickel	4	EQS	12	12	2	18	8

Chemical of potential concern	Water quality target (WQT) (µg/l)	Basis for water quality target	No. samples	No. samples above LoD	Min. (µg/l)	Max. (µg/l)	No. samples exceeding WQT and above LoD
Iron	200	DWS	12	12	5	510	3
Zinc	12.3	EQS	12	12	1.8	15	1
Cyanide (Free)	1	EQS	12	2	4.8	17	2
Cyanide (Total)	50	DWS	12	10	<1	720	4
Ammonium	500	DWS	12	12	18	65,000	4
Sulphate	250,000 400,000	DWS EQS	12	12	129,000	1,450,000	7 4
Sodium	200,000	EWS	12	12	55,000	230,000	1
Naphthalene	2	EQS	12	1	139	139	1
Phenol	7.7	EQS	12	6	<0.05	34	4
Ali >EC5-7	1 10	Hydrock DWS** Withdrawn PWS*	12	1	<1	44	1 1
Aro >EC7-8	10	Withdrawn PWS*	12	1	<1	11	1
Aro >EC8-10	10	Withdrawn PWS*	12	1	<1	160	1
Aro >EC10-12	90 10*	Hydrock DWS** Withdrawn PWS	12	1	<10	360	1
Aro >EC12-16	90 10	Hydrock DWS** Withdrawn PWS	12	1	<10	650	1 1
Aro >EC16-21	90 10	Hydrock DWS** Withdrawn PWS	12	1	<10	200	1 1
Benzene	1 10	DWS EQS	12	1	<1	44.2	1 1
Ethylbenzene	20	EQS	12	1	<1	26	1
o-Xylene	30	EQS	12	1	<1	44.7	1
m, p-Xylene	30	EQS	12	1	<1	35.8	1

Note: the maximum recorded value is compared with the water quality target.
* The Water Supply Regulations 1989 and the Private Water Supply Regulations 1991 both contained a prescribed concentration of 10 µg/l for 'dissolved or emulsified hydrocarbons (after extraction with petroleum ether); mineral oils'. This was removed when these Regulations were updated in 2000 (consolidated 2007) and 2009, respectively. However, 10 µg/l is used in this report as an initial screening assessment as it is frequently the preferred approach of the Environment Agency.
** Hydrock calculated DWS for petroleum hydrocarbon fractions based on WHO methodology.

7.5.2 Risk evaluation

7.5.2.1 Perched Groundwater within the Made Ground

Metals, metalloids and inorganics

The shallow perched groundwater within the Made Ground contains marginal exceedances for drinking water standards (DWS) and environmental quality standards (EQS) for copper, chloride and nitrite.

Manganese is present within the shallow perched groundwater which is explained by localised reducing/anaerobic conditions resulting in the reduction of insoluble manganese (IV) to manganese (II), which are more soluble and hence dissolves into solution.

PAH

Anthracene, benzo(a)pyrene and naphthalene were present at low concentrations within the shallow perched groundwater, likely associated with leaching of PAH present within the Made Ground.

Petroleum hydrocarbons

Concentrations of Aliphatic >EC12-16, >EC16-35 and Aromatic hydrocarbons >EC12-16, >EC16-21 and >EC21-35 were present in the shallow perched groundwater. These fractions of hydrocarbons are considered to have a very low to low mobility within groundwater (CL: AIRE, 2017).

7.5.2.2 Groundwater within the Glacial Till

Metals and metalloids

The groundwater present within the Glacial Till contains low concentrations of cadmium, cobalt, chromium (III), copper, nickel and mercury.

Manganese is present within the groundwater exceeding the DWS and EQS which is explained by localised reducing/anaerobic conditions resulting in the reduction of insoluble manganese (IV) to manganese (II), which are more soluble and hence dissolves into solution.

Inorganics

Sulphate is present in exceedance of the DWS in the groundwater within Glacial Till. The exceedance is considered marginal.

Thiocyanate was present within the groundwater in the Glacial Till at MPBH701, MPBH703 and MPBH705 in the north west and west of phase 1 at concentrations between <200 and 1100µg/l.

Total cyanide within MPBH705 is considered to marginally exceed the drinking water standard at 63µg/l compared to 50µg/l. Within MPBH701 high total cyanide was present at 120µg/l, this location is close to the former ammoniacal liquor plant in the west of phase 1 and also north west in phase 3.

Given that high total cyanide was also encountered within groundwater in the sandstone bedrock in MPBH706 to the north east of MPBH701, Hydrock considers that cyanide associated with the former ammoniacal liquor plant requires additional risk assessment to assess the potential risk to controlled waters.

PAH

Anthracene, benzo(a)pyrene, fluoranthene and naphthalene are present within the groundwater within the Glacial Till and exceed water quality targets. The majority of groundwater sampled from the Chester Formation found no elevated concentrations of PAH (apart from BH301 just to the northwest of Phase 1), therefore the data suggests that PAH present within the groundwater in the Glacial Till is generally immobile.

Petroleum hydrocarbons

Concentrations of Aliphatic >EC10-12, >EC12-16, >EC16-35 and aromatic hydrocarbons >EC10-12, >EC12-16, >EC16-21 and >EC21-35 were present in the groundwater within the Glacial Till. These fractions of hydrocarbons are generally considered to have a very low to low mobility within groundwater (CL: AIRE, 2017). Aromatic fractions >EC10-12 and >EC12-16 are considered to be of moderate solubility within groundwater.

Ten groundwater samples were collected from wells installed into the sandstone bedrock across phases 1 and 2. Apart from BH301 (just to the north of the site in Phase 3), all other sandstone groundwater samples were below the laboratory limit of detection. Therefore, the data suggests that hydrocarbons present within the groundwater in the Glacial Till in Phase 1 & 2 are generally immobile, with the extent of impermeable Glacial Till beneath the local and discontinuous groundwater present within the bands of sand in the Glacial Till inhibiting migration into the deeper sandstone.

7.5.2.3 Groundwater within the Sandstone

To enable a more detailed risk assessment of the risk posed to controlled waters, groundwater samples were collected from phase 3 historic wells BH303A and BH301 installed into the Chester Formation. These two groundwater samples allowed for a direct comparison between chemical determinands present in the deeper groundwater within phases 1 and 2 and those within phase 3. The location of the historic wells is presented on the Combined SI Plan (Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1009) in Appendix A.

Metals and metalloids

The groundwater present within the Chester Formation contains low concentrations of cadmium, cobalt, chromium (III), copper, nickel, mercury, silver and zinc. These exceedances of the EQS are considered marginal and do not pose a risk to controlled waters.

Iron and manganese present within the groundwater are explained by locally reducing/anaerobic conditions causing reduction of the iron (III) and manganese (IV) to iron (II) and manganese (II), which are more soluble and hence dissolve into solution.

Inorganics

Generally, sulphate within the groundwater was high with three elevations of EQS and six elevations of DWS. The sulphate is associated with naturally occurring background concentrations that will be present within the groundwater in the Chester Formation.

Thiocyanate is present within the Chester Formation in two boreholes MPBH702 and MPBH706 in the north and west of phase 1 at concentrations of 210 and 760µg/l. Concentrations of thiocyanate are considerably higher in BH301 in phase 3 at 35,000µg/l.

Ammonium was found to be elevated above the drinking water standards within MPBH706 at 760µg/l, and locally at MPBH713 at 1,300µg/l. Boreholes within phase 3 also contains elevated ammonium including BH303A at 570µg/l and BH301 were significantly elevated at 65,000µg/l.

Total cyanide was found to be elevated above the drinking water standard within MPBH706 at 140µg/l, and locally at MPBH713 at 53µg/l. Higher elevations of total cyanide are present in boreholes within phase 3 including BH303A at 600µg/l and BH301 significantly elevated at 720µg/l. Boreholes within phase 3 also contained free cyanide above the EQS.

Hydrock considers the elevated ammonium, total cyanide and thiocyanate is associated with the former ammoniacal liquor plant and requires additional risk assessment to assess the potential risk to controlled waters.

Concentrations of marginally elevated concentrations of phenol are present within the groundwater in the Chester Formation across phase 1 and 2 in MPBH711 and MPBH713. These concentrations are considered marginal with higher concentrations found in phase 3 at 19 and 34µg/l, compared to phase 1 and 2 at 8 and 8.6 µg/l respectively.

PAH

Elevated naphthalene is present in BH301 within phase 3, there is a of naphthalene within deep groundwater across phases 1 and 2.

Petroleum hydrocarbons

Elevated concentrations of petroleum hydrocarbons and BTEX are present within groundwater in the Chester Formation at BH301 in phase 3. Across phases 1 and 2 petroleum hydrocarbons and BTEX were found to be below the laboratory limit of detection.

The absence of BTEX and VOC within the groundwater across phase 1 and 2 also shows that very weak solvent odours noted in Table 5.4 within the sandstone bedrock in BH05A at 15.50m aren't coupled with gross organic groundwater contamination.

7.5.3 Groundwater Risk Assessment Summary and Conclusions

Groundwater beneath the site can generally be characterised as follows:

- Localised perched waters at the base of the Made Ground, whilst likely in places to exhibit some contamination is generally speaking unlikely to pose a significant risk to Controlled Waters (particularly so the Principal Aquifer) due to the thickness of the low permeability Glacial Till across the site.
- There is localised groundwater within granular bands within the Glacial Till, though often the sequence is dry with no groundwater present. There is evidence of some limited impact of hydrocarbons in the vicinity of the former fuel storage area in the northeast of the site (MPBH714), though the impact is limited to low mobility mid to high end aliphatic species and is therefore not considered to pose a significant risk to Controlled Waters in the underlying aquifer. The exception is in the northwest of the Phase 1 area (MPBH701 / BH305), where groundwater in the Glacial Till was impacted by typically gasworks wastes such as cyanides, ammonium, hydrocarbons. Whilst there is an impact in this borehole (most likely due to lateral migration into the more permeable granular bands associated with contaminant sources further to the north in the Phase 3 area), a low

permeability clay layer is present above the Principal Aquifer sandstone and Hydrock considers it unlikely that there is a significant pathway into the underlying Principal Aquifer in this area.

- Groundwater within the sandstone is generally speaking relatively clean across the majority of the Phase 1 area (supporting the observations above), with some generalised impact from low level cyanides attributed to the main gasworks area to the north, and (typically) no observed impacts from hydrocarbons. There is, however, significantly elevated hydrocarbons, cyanides and ammonium in BH301 just to the north of the Phase 1 area, with additional areas of elevated cyanides in nearby boreholes BH03 and MBH705. Given the known site history, and the proven thickness of low permeability deposits in the northwest of the Phase 1 area, this contamination in the sandstone Principal Aquifer is likely to be due to the main contamination sources that are known to have been present in the Phase 3 and 4 areas, with a contaminant plume that appears to be impacting on the northwest of the Phase 1 area. Further monitoring, improved groundwater monitoring network and risk assessment is required to confirm the risk to Controlled Waters.

Whilst there are concentrations of Chemicals of Potential Concern elevated above the water quality criteria, based on the investigation works undertaken to date and subject to additional risk assessment, and agreement with the Environment Agency, Hydrock does not believe the Phase 1 & 2 site area poses a significant risk to Controlled Waters.

7.6 Coal Tar

Preliminary testing of PAH concentrations was undertaken on buried bituminous hardstanding present within TP704 and TP722.

Laboratory chemical testing confirmed concentrations of benzo(a)pyrene above 50mg/kg, at 200mg/kg in TP704 and 600mg/kg in TP722, a key indicator of the presence of coal tar (as defined in the guidance note produced by the Association of Directors of Environment, Economy Planning and Transport (ADEPT) entitled “Managing Reclaimed Asphalt – Highways and Pavements”, version 2016-1.

7.7 Ground gases risk assessment

7.7.1 Data

It is judged from the available evidence that the gas generation potential at the site is moderate (due to the potential for deep backfilled Made Ground associated with the operation of the former gas works) and that the sensitivity of the development is low (due to the proposed development of seven-storey apartments blocks). Consequently, and in accordance with CIRIA C665 (Table 5.5a and 5.5b), an appropriate minimum monitoring regime is six readings over three months, provided other monitoring requirements are also met, such as prevailing atmospheric pressure conditions (for example, BS 8485:2015 +A1:2019 suggests monitoring should include a period of falling atmospheric pressure).

Hydrock has undertaken three of the six readings required, but monitoring has not been undertaken during periods of falling and low atmospheric pressure. As such, the conclusions presented below are considered interim, pending ongoing ground gas monitoring.

7.7.2 Assessment

The risks associated with the ground gases methane (CH_4) and carbon dioxide (CO_2) have been assessed using BS 8485:2015 +A1:2019, which cites the guidelines published by CIRIA (Wilson et al 2007) (known as Situation A).

There is an alternative assessment method described by the NHBC (Boyle and Witherington 2007) (known as Situation B). Whilst 'Situation B' may also be suitable for the assessment, it is Hydrock's opinion that the NHBC Guidelines are not at the current time fully aligned with current ground gas risk assessment principles (as described in BS 8485:2015 +A1:2019). As such, 'Situation A' has been chosen as the means by which the gas risk will be assessed.

The assessment guidelines published by CIRIA are based on interpretation of the gas concentrations and the gas flow rates, amongst other variables, and are compliant with LCRM. The modified Wilson and Card assessment has been used by comparing the maximum gas concentrations and gas screening values (GSV[3]) in Appendix D with the published table (CIRIA Table 8.5) and the assessment is summarised in Table 7.13. The assessment is presented in Appendix D.

Table 7.13: Ground gas risk assessment

	Min	Max	Typical [(i)]	Comment
Steady Flow Rate (l/hr)	<0.01	9.5	<0.01	-
Methane (%)	<0.1	0.3	<1	Carbon dioxide elevated on one visit within MPBH704 at 6.8%, on the other two visits carbon dioxide was <1 in MPBH704.
Carbon Dioxide (%)	<0.1	6.8	<2.5	
Carbon Monoxide (ppm)	<1	295	<1	CO elevated above the HSE indoor guideline of <20ppm in 10 results out of 54. Present in deep boreholes, where anoxic conditions in the groundwater is forming CO. Piling type will form a seal between concrete and ground and reduce any potential for upward migration.
Hydrogen Sulphide (ppm)	<1	<1	<1	-
Oxygen (%)	0.4	21.7	>16	-
Carbon Dioxide GSV (l/hr)	0.000	0.024	<0.07	CS1
Methane GSV (l/hr)	0.000	0.003	<0.07	CS1

[(i)] Hydrock assume that values are considered to be atypical if 95% or more of the remaining data are less than the value under consideration

For the purposes of the calculation, where the recorded gas flow rate is below the manufacturer's limit of detection for the instrument used, the detection limit has been adopted for the gas flow rate.

As indicated in Table 7.13, the computed GSV for carbon dioxide and methane indicates CS1 conditions as methane and carbon dioxide concentrations are 'typically' below 1% and 5% respectively. However due the vapour risk posed by VOCs and hydrocarbons in the Made Ground, the site is provisionally classified as Characteristic Situation 2 (Situation B).

7.7.3 Off-site risks from carbon dioxide and methane

The National Planning Policy Framework requires that a developed site should be incapable of being determined as contaminated land under Part 2A of the Environmental Protection Act 1990. This position includes a consideration of the potential for off-site migration of ground gases that may impact on adjacent properties.

Consequently, it may be necessary to consider the imposition of measures to protect adjacent, off-site receptors. In this case ground gases have been found to be in low concentrations from soils underlying

[3] Note: GSV is synonymous with 'site characteristic hazardous gas flow rate' (Q_{hgs}) of BS 8485:2015 +A1:2019 Table.

the site and offsite the underlying the superficial deposits will comprise impermeable Glacial Till which will inhibit the offsite migration of ground gases.

7.8 Volatile organic compounds

As shown in Section 7.3.4.7 and Table 5.11, concentrations of VOC in soils have been found in excess of the GAC and elevated PID readings above background concentrations of 20ppm have been encountered at multiple locations within the Made Ground associated with visual, olfactory and laboratory evidence of benzene, 1, 2, 4-trimethylbenzene and petroleum hydrocarbons.

7.9 Construction materials risk assessment

7.9.1 Water pipelines

A formal water pipe investigation and risk assessment is beyond the scope of this report. However, the findings of this investigation have been compared to the threshold values in Water UK HBF (2014), Table 1 as far as is practicable, to give an indication of the possible restrictions to the use of plastic pipes for water supply to the site (see the reference in Appendix I for further information).

The site is brownfield and at the likely depth of a proposed water pipeline between 0.75m and 1.35m bgl, petroleum hydrocarbon aliphatic and aromatic EC >16-40, BTEX and MTBE have been identified in exceedance of the threshold values and Hydrock believes barrier pipe is required. However, confirmation should be sought from the water supply company at the earliest opportunity.

7.9.2 Other construction materials

Plastic pipes for drains and sewers are typically manufactured from unplasticized poly (vinyl chloride) (PVC-U), polypropylene (PP) or polyethylene (PE). These materials may be affected by the presence of organic compounds in the soil.

In accordance with the British Plastics Federation Guidance (August, 2018), as the concentrations of petroleum hydrocarbons (TPH) are above 200 mg/kg, the pipework manufacturer should be consulted with regard the suitability of the pipework.

The implications for buried concrete are discussed in Section 6.11.

7.10 Contamination risks to ground workers

7.10.1 Introduction

Whilst risks to construction workers are not discussed in detail, the following section discusses potential risks that should be considered.

Information presented in this document is provided to assist in managing the risk associated with contamination in soil and groundwater at the site but is not definitive. The Contractors are responsible for undertaking their own assessments and assessing what risks are present and what control measures are required.

Task specific risk assessments and method statements should be in place, and risks and required mitigation measures communicated to all relevant personnel prior to the works commencing. Appropriate PPE and, if required, RPE should be provided and utilised.

7.10.2 Metals, metalloids, PAH and petroleum hydrocarbons

The Made Ground contains metals, metalloids, PAH and petroleum hydrocarbons, benzene, VOC and concentrations of SVOC. With PAH and arsenic recorded as pervasive concentrations throughout the Made Ground.

7.10.3 Ground Gas

It is noted that concentrations of carbon dioxide and carbon monoxide (both asphyxiants) in the soil exceed HSE Workplace Exposure Limits for personnel in the working environment of 1.5% for short term (15 minutes) exposure and 0.5% for long term exposure (carbon dioxide) and 20ppm for carbon monoxide (HSE indoor guideline). Furthermore, soil concentrations of oxygen have been found below the HSE recommendations of 18%.

Soil gas concentrations are not necessarily reflected by those in the breathing zone, as such, all Contractors and maintenance workers should be made aware of the possible presence of carbon dioxide, carbon monoxide and depleted oxygen and should take all necessary health and safety precautions when working in trenches or confined spaces.

7.10.4 Vapours

There are high PID readings associated the petroleum hydrocarbons present within the Made Ground. In addition to the potential for nuisance odours, there is a risk of volatilisation from the soils and shallow perched groundwater, especially in confined spaces and risk assessments and method statements should be in place if vapours and odours are identified during excavation. Additional guidance can be found in EH40/2005 Workplace Exposure Limits (HSE 2011).

7.10.5 Asbestos

Occasional visible fragments of suspected asbestos cement sheeting have been identified during the ground investigation and low concentrations of asbestos fibres (<0.001% to 0.013%) have been identified during the laboratory testing of soils.

All site staff should be made aware that there is a likelihood of encountering further asbestos containing materials within the Made Ground anywhere on the site, and at any stage of the development. It is advised that the Contractor should supply suitable and sufficient 'Asbestos Awareness' training (specific to asbestos in soils) to all site staff who could foreseeably encounter asbestos containing materials during the course of their work.

The Contractor for each stage of works must undertake a suitable and sufficient risk assessment in accordance with Regulation 6 of the Control of Asbestos Regulations 2012 (CAR2012). The results of the assessment should be used to compile a methodology in accordance with Regulation 7 of CAR2012, which limits potential exposure and spread of asbestos fibre. Appropriate training should be provided to all site staff identified within the risk assessment as having the potential to be exposed or encounter asbestos during their work in accordance with Regulation 10 of CAR2012.

It is the responsibility of the Contractor to ensure that mitigation measures are suitable and sufficient to prevent exposure to airborne asbestos so far as is reasonably practicable in accordance with Regulation 11 of CAR2012.

It is recommended that any asbestos cement sheeting encountered is handpicked under controlled conditions in accordance with HSG210 'Asbestos Essentials'. Hand picking needs to be undertaken by

suitably qualified Contractors in accordance with HSE guidance and an Environmental Permit. All ACM must be suitably packaged, placed in a dedicated, covered and lockable skip pending off-site disposal to a suitably licensed waste facility.

In addition to the presence of occasional visible fragments of suspected asbestos cement sheeting, the soils contain low concentrations of asbestos fibres (<0.001% to 0.013%). The Contractors for each stage of works must manage the risks in accordance with HSE Guidance and CAR 2012. However, the asbestos fibres detected at the site are within a soil matrix, and if this is kept damp, this should assist in minimising the risk of the release of airborne fibres.

7.11 Findings of the generic contamination risk assessments

The potential sources, pathways and receptors identified in the desk study (Section 2.0) have been investigated (Sections 4 and 5) and assessed (Sections 7.2 to 7.9). A Source-Pathway-Receptor linkage assessment has been undertaken and is presented in Appendix H (Table K.2).

The Phase 1 and Phase 2 Final Conceptual Model is illustrated on Hydrock Drawing 21353-HYD-XX-XX-DR-GE-1016 in Appendix A.

A summary of the Source-Pathway-Receptor (SPR) contaminant linkages for which the risks may be unacceptable and require mitigation (those that are moderate or higher) are discussed in Table 7.14.

Table 7.14 assumes the following SPR linkages which have been discounted (subject to agreement) at the risk evaluation stage are confirmed by the regulators and the warranty provider as not requiring further consideration (mitigation). If these assumptions are not agreed during regulatory discussions, the conclusions as noted in Table 7.14 will need to be updated:

- Perched groundwater within Made Ground exhibits some contaminations how due to the thickness of the low permeability Glacial Till across the site it's not considered a risk to controlled waters.
- Granular bands within the Glacial Till in the north east contain limited to low mobility mid to high end aliphatic species and is therefore not considered to pose a significant risk to Controlled Waters in the underlying aquifer.
- Groundwater in the Glacial Till within MPBH701 and BH305, is impacted by typically gasworks wastes such as cyanides, ammonium, hydrocarbons, a low permeability clay layer is present above the Principal Aquifer sandstone and contamination is unlikely to have migrated into the Chester Formation.
- Groundwater within the sandstone is generally speaking relatively clean across the majority of the Phase 1 area (supporting the observations above), with some generalised impact from low level cyanides attributed to the main gasworks area to the north, and (typically) no observed impacts from hydrocarbons.
- Locally within the sandstone bedrock there are significantly elevated hydrocarbons, cyanides and ammonium in BH301 just to the north of the Phase 1 area, with additional areas of elevated cyanides in nearby boreholes BH03 and MBH705. Likely due to the main contamination sources that are known to have been present in the Phase 3 and 4 areas, with a contaminant plume that appears to be impacting on the northwest of the Phase 1 area.

Table 7.14: Residual risks following risk evaluation

Contaminant Linkage				Comments	
Pollutant Linkage	Sources	Pathways	Receptors	General	Mitigation
PL 1.	Pervasive arsenic and PAH in the Made Ground.	Ingestion.	Human health.	Significant exceedance of the GAC.	Mitigation required in the form of a simple cover system.
PL 2.	Asbestos fibres in soil or asbestos-containing materials in the Made Ground	Inhalation of fugitive dust.	Human health.	Made Ground seen to contain suspected asbestos-containing materials. Asbestos fibres measured in soil samples.	Mitigation required in the form of a simple cover system. In addition, any ACM encountered during earthworks will need to be handpicked and removed from site.
PL 3.	Petroleum hydrocarbons within the Made Ground or visual of olfactory evidence of hydrocarbon contamination.	Ingestion or inhalation.	Human health.	During the investigation areas of elevated petroleum hydrocarbons were encountered coupled with visual and olfactory evidence of contamination in soils and shallow perched water.	Mitigation required in the form of a simple cover system and by the installation of a VOC vapour membrane in buildings.
		Future abstraction and baseflow, via direct contact with piles.	Humans (abstraction) and the River Irk.		Site turnover likely to be up 1.50m to remove obstructions as well as a general strip of the top 0.50m. Known areas of contamination in the top 1.50m should be delineated further, removed from beneath building footprint and placed either beneath hardstanding or used as fill at depth behind retaining walls if geotechnically suitable.
PL 4.	Presence of benzene, 1-2-4-Trimethylbenzene and concentrations of SVOC.	Inhalation of VOC.	Human health.	Concentrations of benzene, 1-2-4-Trimethylbenzene with GACs above indoor pathway. Multiple elevated PID readings suggestive of further volatiles in the Made Ground.	In the absence of bioremediation of the Made Ground. Mitigation required by the installation of a VOC vapour membrane in buildings.

Contaminant Linkage				Comments	
Pollutant Linkage	Sources	Pathways	Receptors	General	Mitigation
PL 5.	Styrene present within WS704 at 1.20m bgl.	Ingestion or inhalation.	Human health.	Significant exceedance of the GAC.	Further delineation of the extent of the hotspot required and severing of pathway by placement beneath hardstanding outside the building footprint or use behind the retaining wall if geotechnically suitable.
PL 6.	Elevated petroleum hydrocarbon aliphatic and aromatic EC >16-40, BTEX and MTBE at depths of pipework installation.	Direct Contact.	Water Supply.	Exceedance of TPHs, BTEX and MTBE above the threshold for PE pipework.	Installation of "Protectaline" (or similar) pipework across the site.
PL 7.	Asbestos fibres from insulation or asbestos-containing materials in the buildings.	Inhalation of fugitive dust.	Human health (site neighbours).	Possible asbestos containing materials within existing buildings on site.	Removal will be required. However, removal under controlled conditions should limit off-site emissions
PL 8.	Carbon Monoxide presence within the Glacial Till and Chester Formation forming from anaerobic conditions in the groundwater.	Migration through pathways formed in the soils from piling.	End users of new buildings (asphyxiation). Users of off-site properties (asphyxiation).	Elevated CO present within the deeper boreholes installed in the Chester Formation.	The selection of pile should allow for the creation of a seal between soils and concrete to inhibit gas migration up the pile length.
PL 9.	Buried bituminous materials possibly containing coal tar.	Ingestion or inhalation.	Human Health.	Significant benzo(a) pyrene concentrations present in the buried bituminous material suggesting coal tar presence.	More targeted coal tar analysis of the material, placement at depth behind the retaining wall if geotechnically suitable or dispose offsite.

Contaminant Linkage				Comments	
Pollutant Linkage	Sources	Pathways	Receptors	General	Mitigation
PL 10.	Ammonium, Total Cyanide, Thiocyanate and hydrocarbons in groundwater in the Chester Formation from offsite sources in phases 3 and 4.	Future abstraction and baseflow.	Humans (abstraction) and the River Irk.	Likely due to the main contamination sources that are known to have been present in the Phase 3 and 4 areas, with a contaminant plume that appears to be impacting on the northwest of the Phase 1 area.	Further detailed risk assessment required to assess the risk to controlled waters and discussion with the EA regarding the results of the assessment.

7.12 Mitigation measures

As described in Table 7.14 (and subject to regulatory (and NHBC) agreement), Hydrock consider the following mitigation is required to ensure the site is suitable for use for the proposed end use. These mitigation works will be undertaken in a number of phases and can be separated into:

- Demolition Phase;
- Enablement Phase; and
- Construction Phase.

There will also be a requirement to undertake works to ensure the site is geotechnically suitable.

The methodology for the remediation should be presented in a Remediation Strategy (which will include the 'Implementation Plan', the 'Verification Plan' and the 'Long Term Monitoring and Maintenance Plan'), which will need to be submitted to the warranty provider and the regulatory authorities for approval.

The writing and approval of a Materials Management Plan will be required to allow reuse of suitable material at the site. As treatment of Made Ground is required, an appropriate Environmental Permit will also be required.

Verification reports by a suitably qualified independent geo-environmental specialist will be required following completion of any remedial works (including vapour resistant membrane installation).

7.12.1 Demolition Phase

The existing buildings and associated infrastructure require demolition and the following works are considered necessary during the Demolition Phase of works:

- refurbishment / demolition asbestos survey of existing structures and any service ducts present on site;
- site clearance;

- removal of asbestos by specialist Contractors in accordance with the asbestos survey and relevant legislation (PL8);
- demolition of site buildings and ancillary structures to slab level; and
- processing the demolition arisings to a suitable specification in accordance with the WRAP 'Quality Protocol: Aggregates from inert waste'.

7.12.2 Enablement Phase

The following works are considered necessary during the Enablement Phase of works:

- break out of all hardstanding and below ground obstructions and processing for reuse in accordance with a suitable specification and a Materials Management Plan (MMP);
- During the site turnover known locations of petroleum hydrocarbon or visual or olfactory evidence of petroleum hydrocarbon contamination between 0.50m and 1.50m bgl should either be moved and placed underneath hardstanding outside of the building footprint or utilised as fill at depth behind the retaining walls if geotechnically suitable (PL3);
- Targeted delineation and excavation of Made Ground present in WS704 at 1.20m and placement either below hardstanding outside of the building footprint or behind the retaining walls if geotechnically suitable (PL5);
- examination of soils below and around all potential point sources (pipes, drains and areas of staining or previous visual and olfactory contamination) and excavation of impacted soils and placement outside of the building footprint (as possible depending on site constraints) (PL3, PL4 and PL5);
- examination of Made Ground soils in the vicinity of MPBH07a, hand picking of any visual suspected cement type asbestos and disposal offsite via a licensed waste contractor (PL2);
- excavation of Made Ground and natural soils as required to allow construction with appropriate materials management and processing of excavated soils using a combination of: excavation and stockpiling and screening of soils to leave the site at the level required for the installation of a working platform, pavement construction and to allow the installation of a 450mm cover system;
- removal of any visually contaminated perched water and disposal (PL3);
- off-site disposal of unsuitable or excess material; and
- verification during enablement works.

Due to the potential for low concentrations of dissolved phase petroleum hydrocarbons in the shallow perched groundwater, treatment of any water pumped from excavations (via a granular activated carbon plant) may be required prior to discharge from the site. This would apply to both the enablement and construction phase of works.

7.12.3 Construction Phase

The Construction Phase of works will comprise:

- appropriate materials handling and stockpiling in accordance with the Materials Management Plan (MMP);
- Installation of Protectaline pipework (PL6).
- Installation of a VOC vapour membrane in buildings. (as described in Section 7.12.4) (PL3 and PL4).

- import of subsoil and topsoil in accordance with the Materials Management Plan (MMP);
- the installation of a simple cover system in landscaped areas (PL1, PL2, PL3), comprising:
  - » Imported subsoil / topsoil (450mm in landscaped areas), comprising a minimum of 150mm topsoil and 300mm subsoil.
  - » Installation of high visibility geo membrane at the base of the cover system.

7.12.4 Vapour protection measures

The final design of vapour resistant protection measures is to be specified by the designer (in accordance with CIRIA C665, CIRIA C748 and BS 8485:2015 +A1:2019) and the protection will need to be achieved by a combination of two or more of the following three types of protection measures:

- the structural barrier of the floor slab, or of the basement slab and walls if there is a basement present;
- ventilation measures; and
- gas resistant membrane.

Where design elements are required to meet certain standards to qualify for the protection points (e.g. cast *in situ* monolithic reinforced floor slab), it is up to the designer to ensure the minimum requirements of the standards are met.

Where used, gas resistant membranes should be:

- sufficiently impervious to methane and carbon dioxide;
- capable, after installation, of providing a complete barrier to the entry of the relevant gas;
- sufficiently durable to remain serviceable for the anticipated life of the building and duration of gas emissions;
- sufficiently strong to withstand in service stresses (e.g. due to ground settlement if placed below a floor slab);
- sufficiently strong to withstand the installation process and following construction activities until covered (e.g. penetration from steel fibres in fibre reinforced concrete, penetration of reinforcement ties, tearing due to working above it, and dropping tools); and
- chemically resistant to degradation by other contaminants that might be present.

As preliminary guidance, Hydrock would suggest the following:

Either:

- Beam and block or pre-cast concrete floor slab (0 points);
- passive sub floor ventilation e.g. void (good performance 1.5 points); and
- 2000g gas resistant membrane (2.0 points). The membrane needs to provide a hydrocarbon and VOC vapour barrier.

Or:

- Cast *in situ* ground-bearing floor slab (with only nominal mesh reinforcement) (0.5 points);
- 2000g gas resistant membrane (2.0 points). The membrane needs to provide a hydrocarbon and VOC vapour barrier.

Other variations are possible. It is up to the designer to design and specify ground gas protection measures.

Choice of the specific hydrocarbon and VOC vapour barrier should be made by the designer is association with the membrane supplier, following additional risk assessment in accordance with CIRIA C748.

Where a gas resistant membrane is required as part of the design, all joints and penetrations are to be sealed and the installation is to be verified in accordance with CIRIA C735 (Mallet et al 2014) or it will score zero points and will not be deemed to afford any protection. This verification will involve verification by the Contractor and independent verification on a selected number of plots by Hydrock or alternative qualified independent third-party.

Whilst tape can be utilised to seal the seams Hydrock would recommend the membranes are sealed using welded seams and the use of specialist seals around penetrations (top hats etc.). The installer is to present an installation methodology and a QA/QC plan for installation to Hydrock for comment, with particular attention given to sealing the membrane.

In order to achieve the points specified for ventilation, the architect is to design passive ventilation to meet at least 'good performance', as described in Annex B of BS 8485:2015 +A1:2019.

8. WASTE AND MATERIALS MANAGEMENT

8.1 Introduction

The Waste Framework Directive (WFD) (2009/98/EC) defines waste as '*any substance which the holder discards or intends to discard.*' In a geo-environmental context, the waste is most often 'soil' and the two main scenarios are offsite disposal of the material as a waste and/or reuse of the material on site. For cost and sustainability reasons, reuse is preferred to off-site disposal.

Section 8.2 below describes the key issues relating to off-site disposal to landfill and Section 8.4 considers requirements relating to reuse of soils and materials management.

8.2 Waste disposal

8.2.1 Principles

Based on the WFD, any material excavated on site may be classified as waste and it is the responsibility of the producer of a material to determine whether or not it is waste. Where off-site disposal is undertaken, the following guidance applies.

Classification is a staged process:

- A hazardous waste is defined under the WFD as one which possesses one or more of fifteen defined hazardous properties. If a waste is not defined as hazardous, then it is non-hazardous.
- Where the materials are soil, it is then be assigned using the 'List of Waste Codes', which classifies the material as either:
  - » hazardous (17-05-03), which is defined as "*soil and stones containing hazardous substances*"; or
  - » non-hazardous (17-05-04), which is defined as "*soil and stones other than those mentioned in 17-05-03*".
  - » Hydrock utilise the proprietary assessment tool, HazWasteOnline™ to undertake this assessment.
- Waste Acceptance Criteria (WAC) testing is then undertaken if required, and are only applicable following classification of the waste, and only where the waste is destined for disposal to landfill. The WAC are both qualitative and quantitative. The WAC and the associated laboratory analyses (leaching tests) are not suitable for use in the determination of whether a waste is hazardous or non-hazardous.

It should be noted that some non-hazardous wastes may be suitable for disposal at an inert landfill as non-hazardous waste, subject to meeting the appropriate waste acceptance criteria.

It should be noted that classification must be undertaken on the waste produced, by the waste producer. Necessary sampling frequency to adequately characterise a soil population is defined within WM3.

Further discussion with regards to the characterisation process for different scenarios and waste types is provided below.

Topsoil and Peat

Topsoil and peat are biodegradable, therefore if they are surplus to requirements and cannot be re-used in accordance with a Materials Management Plan, they cannot be classified as inert. As such, topsoil and peat need to be classified by a staged assessment and sampling process and would either be classified as hazardous or non-hazardous, depending upon the results of the assessment.

Greenfield Sites

Waste from completely greenfield sites may be accepted at a landfill as inert waste if it meets the requirements of paragraph 10 (wastes acceptable without testing at landfills for inert waste) of the Landfill (England and Wales) (Amendment) Regulations (2005) ('the Regulations') can be met. Paragraph 10 of the Regulations states, "*soils may be able to be classified as inert waste without testing, if:*

- *they are single stream waste of a single waste type;*
- *there is no suspicion of contamination and they do not contain other material or substances such as metals, asbestos, plastics, chemicals, etc….."*

As such, where the site is greenfield and the waste producer is confident about the quality of a soil (i.e. naturally occurring and uncontaminated), further sampling and laboratory testing is not necessary for the Basic Characterisation and this can be undertaken on qualitative Waste Acceptance Criteria testing.

In this instance the waste producer can characterise the waste based on visual assessment and written description of the waste in addition to supporting evidence such as a desk study assessment of the greenfield status. However, it should be noted this characterisation is subject to agreement by the landfill operator who may require testing to be undertaken to confirm classification.

Contaminated or potentially contaminated sites

If the site is brownfield, contaminated or potentially contaminated, the waste must undergo an initial waste classification exercise using background information on the source and origin of the waste and assessment of chemical test data in accordance with Environment Agency Technical Guidance WM3.

If following the initial waste classification exercise, the soils are acceptable for disposal to a non-hazardous landfill, further qualitative Waste Acceptance Criteria (WAC) testing is not required.

However, if soils are potentially able to be disposed to an inert landfill as non-hazardous waste, or require testing to determine if they can be disposed of to a stable non-reactive hazardous or hazardous class of landfill, the next stage of assessment is to undertake qualitative WAC testing. This will determine the Basic Characterisation and the landfill category at which the soils can be accepted.

Hazardous material must be subjected to WAC testing to determine whether it requires treatment before it can be accepted at the hazardous landfill, while non-hazardous material can be tested to determine whether it may be suitable for placement in an inert landfill.

8.2.2 HazWasteOnline™ assessment

As the site is brownfield, in order to inform the preliminary waste characterisation process, Hydrock has undertaken an exercise using the proprietary web-based tool HazWasteOnline™. The output of the HazWasteOnline™ assessment is provided in Appendix F and a summary of the preliminary waste classification is provided below in Section 8.2.3.

It should be noted that some of the soil samples assessed as part of the HazWasteOnline™ are classified as potentially hazardous on account of the designation 'HP3i' (with regards to petroleum hydrocarbons). However, based upon carbon banding of the TPH, the findings of the investigation and the way the petroleum hydrocarbons are distributed within the soil, it is likely that the potential for the soil being hazardous on account of HP3i can be all but discounted and it would be reasonable to assume that the result would indicate that the soil, would be non-hazardous as a result of the TPH content.

8.2.3 Preliminary waste disposal options

The site is brownfield and based on the site history and the HazWasteOnline™ assessment, if suitable segregation of different types of waste is put in place, for soils to be disposed of, it is considered that:

- The Made Ground is likely to be classified as non-hazardous with some local areas classified as hazardous.
- The Glacial Till is likely to be classified as non-hazardous.
- Weathered Chester Formation and Chester Formation are likely to be classified as non-hazardous
- Any soils containing > 0.1% asbestos or visible asbestos containing materials would be considered as hazardous.
- The testing undertaken on the buried bituminous materials have proven concentrations of benzo(a)pyrene of >50mg/kg which is an indicator that coal tars are present above hazardous waste limits (0.1%), and as such will likely be classified as hazardous waste.

8.2.4 General waste comments

It should be noted that:

- It is the waste producer's responsibility to segregate the waste at source and waste producers must not mix waste materials/streams or dilute hazardous components, for example by mixing with less or non-hazardous waste on site to meet WAC limit values.
- The above preliminary assessment has been made on the basis of the soils tested as part of the ground investigation, using HazWasteOnline™ assessment. However, the formal classification of waste can only be undertaken on the material to be disposed of, and by the waste producer and the receiving landfill as license conditions vary from landfill to landfill.
- Basic Characterisation should be undertaken in accordance with Environment Agency guidance by the waste producer. Hydrock can assist if required and this report will assist the characterisation. However, Basic Characterisation does not form part of the current commission and would require further assessment and testing on the wastes actually to be disposed.
- Once the waste producer has undertaken an initial Basic Characterisation on each waste stream, they can manage the soils as part of the on-site processing programme (for example, stockpiling, treatment, screening and separation). The waste producer and landfill operator will then need to

agree the suite of compliance testing for regularly generated waste to demonstrate compliance with the initial Basic Characterisation prior to disposal.

- At the time of disposal, additional testing on the excavated soils to be disposed of, will likely be necessary.
- Non-hazardous and hazardous soils require pre-treatment (separation, sorting and screening) prior to disposal.
- The costs for disposal of non-hazardous and hazardous soils are significant compared to disposal of inert material.
- In addition to disposal costs, landfill tax will be applicable. Non-hazardous and hazardous waste will generally be subject to the Standard Rate Landfill Tax. Inert or inactive waste will generally be subject to the Lower Rate Landfill Tax. The landfill tax value changes each April and can be found at https://www.gov.uk/government/publications/rates-and-allowances-landfill-tax/landfill-tax-rates-from-1-april-2013.
- Before a waste producer can move waste to a landfill site for disposal, they need to check the landfill site has the appropriate permit and must have completed the following[4]:
  - » Duty of care transfer note / Hazardous Waste consignment note, including comment as to if pre-treatment has been undertaken; and
  - » Basic Characterisation of the waste, to include: description of the waste; waste code (using list of wastes); composition of the waste (by testing, if necessary) and; WAC testing (if required).

8.3 Re-use of bituminous bound pavement waste containing coal tar

The site investigation has proven that some of the bituminous bound pavement waste contains coal tar (otherwise known as, Asphalt Waste Containing Coal Tar (AWCCT)).

If AWCCT is to be re-used on site, it will need to be re-used in accordance with the Environment Agency Regulator Position Statement 075 (EARPS075).

In order to comply with EA RPS075 allowing the re-use of AWCCT in construction operations for hard paving structures, without an environmental permit, the contractor needs to comply with the following items presented in the statement:

"We will not pursue an application for an environmental permit for the use of where:

- *The treated AWCCT meets the requirements of clause 948, ex-situ cold recycled bound material, within the Specification for Highways Works Series 900, or clauses 810 to 880 for cement and other hydraulically bound mixtures within the Specification for Highway Works Series 800.*
- *The material is used only in bound sub-surface layers e.g. sub-base, base and binder layers. Use in surface applications is not allowed.*
- *You meet the relevant objectives of the Waste Framework Directive;*
  - » *'… ensuring that waste management is carried out without endangering human health, without harming the environment and in particular: (i) without risk to water, air, soil, plants or animals;*

[4] ENVIRONMENT AGENCY. November 2010. Guidance on waste acceptance procedures and criteria. Waste acceptance at landfills. The Environment Agency.

(ii) without causing a nuisance through noise or odours; and (iii) without adversely affecting the countryside or places of special interest.'"

The material containing coal tar will need to be placed as part of hardstanding (but cannot be placed below buildings and cannot be placed at the surface), which will break the pathway between the material and the end users of the site. However, it is recommended that the location of the coal tar containing material is recorded in the Health and Safety file to ensure future maintenance workers are aware of the potential risks. The location of the coal tar containing materials should be surveyed in and presented on a plan in the contractor's validation report.

A Controlled Waters Detailed Quantitative Risk Assessment (DQRA) will be required to derive the site-specific remediation target values and comply with the EA regulations. The DQRA should take into account: the transport in the unsaturated zone; dilution upon entering the aquifer; and attenuation within the aquifer pathway. Based on our experience with DQRA and PAH contamination, Hydrock would generally expect such a DQRA to rule out any risk to Controlled Waters primarily based on the travel times of the PAH species. However, the only way this can be proven is by completing the DQRA.

Bench trial testing is likely to be required in order to satisfy the Environment Agency and comply with the Remediation Strategy and Verification Plan. It should be noted that bench trial testing can take a significant period of time and if required, it is recommended this is undertaken early.

8.4 Materials management

8.4.1 Introduction

Soils that are to remain on site, should be managed and reused in accordance with a Materials Management Plan (MMP), prepared in accordance with 'The Definition of Waste: Development Industry Code of Practice', Version 2 (CL:AIRE), known as the DoWCoP. Where all aspects of the DoWCoP are followed the soils are considered not to be waste, because they were never discarded in the first place.

Version 2 of the DoWCoP clearly sets out the principles and an outline of the requirements of a MMP. The following compliance criteria must be seen to apply to the MMP for the site:

- Factor 1: Protection of human health and protection of the environment.
- Factor 2: Suitability for use, without further treatment.
- Factor 3: Certainty of Use.
- Factor 4: Fixed Quantity of Material.

The reuse of soils at sites should be considered during the planning and development design process so that compliance with issues such as fixed quantity and certainty of use clearly relate to agreed site levels. Suitability of Use is normally evident from the remediation strategy or the design statement, which form an integral part of a MMP. However, some soils may need to be tested post-excavation to prove they are suitable for use.

Once the MMP is finalised, it must be declared by a Qualified Person (QP). The Declaration is an on-line submission as part of which the QP is required to confirm that the declaration is being made before the relevant works have commenced (i.e. it is not a retrospective application).

Once all material movements have been completed in accordance with the MMP a verification report must be produced, kept for 2 years and provided to the EA on request.

It should be noted that failure to comply with the requirements of the DoWCoP when re-using materials has potentially significant consequences for the waste holder. The risk is that the reused materials are still regarded as a waste that has been illegally deposited. From 1 April 2018, the scope of Landfill Tax has been extended to sites operating without the appropriate environmental disposal permit, and operators of illegal waste sites will now be liable for Landfill Tax. Further information is available at: https://www.gov.uk/government/publications/landfill-tax-disposals-not-made-at-landfill-sites/landfill-tax-disposals-not-made-at-landfill-sites.

If soils are excavated and reused on sites (or moved to another site) without a MMP, exemption, or appropriate Permit in place, anyone who knowingly facilitates the disposal may be '*jointly and severally liable*' to any assessment of tax, fines or prosecution.

8.4.2 Materials management scenarios

The materials management scenarios present on site are discussed below.

It should be noted that more than one scenario may apply, dependent upon where the soils are proposed for reuse.

8.4.2.1 Clean, naturally occurring materials – reused on the site of origin

Where soils are naturally occurring, uncontaminated and are reused on the site they are excavated (i.e. greenfield site with documented site history, with no Made Ground), they will fall outside the Waste Framework Directive (WFD) (i.e. they will not be a waste when reused on the site of origin).

However, there needs to be certainty of that reuse, and evidence is necessary to support this strategy, for example through information provided during the planning process. The onus is on the developer to demonstrate that the materials are not a waste and will never become a waste. As such, a Materials Re-use Strategy is recommended to show certainty. Alternatively, if the volume of material is under 1,000 tonnes, then a U1 waste exemption may be applied for from the Environment Agency.

It may be noted that some 'clean naturally occurring materials' may still fail the 'suitable for use' test, for example, soils with a naturally high organic content may not be suitable for use because of their propensity to produce ground gases such as methane. Rules regarding other more unusual circumstances such as where natural soils contain an unacceptably high mineral content are described in the DoWCoP.

8.4.2.2 Made Ground and other contaminated soils

On sites where Made Ground or contaminated soils are present, any soils excavated will be a waste as soon as they are excavated (even if they are clean, naturally occurring materials), unless they are subject to reuse in accordance with the DoWCoP. As such, for any brownfield site or a site where Made Ground is present and soils are being moved and reused, the materials could be deemed a waste, subject to either:

- a Materials Management Plan (MMP), to prevent the material being classified as a waste following reuse; or
- an exemption (for limited volumes); or
- an environmental permit, dependant on its status.

Other commonly occurring circumstances are:

If Made Ground is being moved between sites, it must be ensured that appropriate permits are in place to ensure the soils are not classified as a waste. Made Ground cannot be moved between sites under DoWCoP alone and would require relevant permits as part of the MMP documentation for the Hub site the material is being treated at.

8.4.2.3 Made Ground and other contaminated soils

All recycled materials (6F2 etc.) must be produced under the 2013 WRAP 'Quality Protocol: Aggregates from inert waste', whether on site or off-site. If they are not, they will be deemed a waste and can only be used on site under a permit. More information can be found at: https://www.gov.uk/government/publications/quality-protocol-production-of-aggregates-frm-inert-waste.

8.4.2.4 Geotechnical improvement requirements

Construction activities carried out on uncontaminated soils solely for the purpose of improving geotechnical properties e.g. lime / cement modification, are not generally regarded as waste treatment operations and do not require a permit.

However, should processing be needed (such as screening, treatment or improvement), that would constitute a waste activity and require a mobile treatment permit. This may be as simple as removing oversize material with an excavator bucket, to using a riddle bucket to remove hardcore to full mechanical screening.

9. UNCERTAINTIES AND LIMITATIONS

9.1 Site-specific comments

Hydrock were unable to carry out MPBH716, MPBH717 and TP706 in the east of phase 2 due to proximity of the intermediate pressure gas main. Cadent were unable to visit the site to supervise the works during the time the ground investigation was carried out.

Hydrock recommend that these boreholes are undertaken in order to complete detailed design of the piling. Also given the access issues in the western part of the site due to the car park, an additional borehole would be beneficial along the NW side of the proposed westernmost apartment building.

Across the north west of phase 1 Hydrock were unable to carry out trial pits TP701, TP702, TP705 and TP721 due to the presence of parked cars which remained in-situ during the time the ground investigation was carried out.

Effective stress testing and shear box testing results are not yet available for review and will be incorporated into the next revision of this report. As such there may be changes to the ground model presented in Table 6.2.

The gas monitoring undertaken to date and included in this report is insufficient to fully characterise the site in accordance with CIRIA Report C665. Monitoring is ongoing and the conclusions of this report will be updated following completion of the scheduled monitoring.

9.2 General comments

Hydrock Consultants Limited (Hydrock) has prepared this report in accordance with the instructions of Crowning Developments Limited (the Client), by PO Number CROWN/808 received by email on the 11th of October 2021 under the terms of appointment for Hydrock, for the sole and specific use of the Client and parties commissioned by them to undertake work where reliance is placed on this report. Any third parties who use the information contained herein do so at their own risk. Hydrock shall not be responsible for any use of the report or its contents for any purpose other than that for which it was prepared or for use of the report by any parties not defined in Hydrock's appointment.

This report details the findings of work carried out in November and December 2021, including works in January 2022. The report has been prepared by Hydrock on the basis of available information obtained during the study period. Although every reasonable effort has been made to gather all relevant information, not all potential environmental constraints or liabilities associated with the site may have been revealed.

Hydrock has used reasonable skill, care and diligence in the design of the investigation of the site and in its interpretation of the information obtained. The inherent variation of ground conditions allows only definition of the actual conditions at the locations and depths of trial pits and boreholes at the time of the investigation. At intermediate locations, conditions can only be inferred.

Groundwater data are only representative of the dates on which they were obtained and both levels and quality may vary.

Unless otherwise stated, the recommendations in this report assume that ground levels will remain as existing. If there is to be any re-profiling (e.g. to create development platforms or for flood alleviation) then the recommendations may not apply.

Information provided by third parties has been used in good faith and is taken at face value; however, Hydrock cannot guarantee its accuracy or completeness.

Where the existing report(s) prepared by others have been provided by the Client, it is assumed that these have been either commissioned by the Client, or can be assigned to the Client, and can be relied upon by Hydrock. Should this not be the case Hydrock should be informed immediately as additional work may be required. Hydrock is not responsible for any factual errors or omissions in the supplied data, or for the opinions and recommendations of others. It is possible that the conditions described may have since changed through natural processes or later activities.

The work has been carried out in general accordance with recognised best practice. The various methodologies used are referenced in Appendix I. Unless otherwise stated, no assessment has been made for the presence of radioactive substances or unexploded ordnance. Where the phrase 'suitable for use' is used in this report, it is in keeping with the terminology used in planning control and does not imply any specific warranty or guarantee offered by Hydrock.

The chemical analyses reported were scheduled for the purposes of risk assessment with respect to human health, plant life and controlled waters as discussed in the report. Whilst the results may be useful in applying the Hazardous Waste Assessment Methodology given in Environment Agency Technical Guidance WM3, they are not primarily intended for that purpose and additional analysis will be required at the time of disposal to fully classify waste. Discussion and comment with regards to waste classification are preliminary and do not form the requirements of 'Basic Characterisation' as required.

Assessment and testing for the presence of coal tar has only been completed at the locations of exploratory holes undertaken for risk assessment purposes. This investigation is not designed to provide a definitive assessment of the risk from coal tar, nor the waste classification for bituminous bound pavement arisings at the site.

Unless otherwise stated, at the time of this investigation the future routes of water supply pipes had not been established. This investigation and sampling strategy may not be fully compliant with UKWIR recommendations. Consequently, a targeted investigation and specific sampling and chemical testing may be required at a later date once the routes of the supply pipes are known. In addition, it is recommended that the relevant water supply company be contacted at an early stage to confirm its requirements for assessment, which may not necessarily be the same as those recommended by UKWIR.

Whilst the preliminary risk assessment process has identified potential risks to construction workers, consideration of occupational health and safety issues is beyond the scope of this report.

The non-specialist UXO screening has been undertaken for the purposes of ground investigation only (i.e. low risk activity in accordance with CIRIA Report C681). Further assessment should be undertaken with regards to other higher risk activities e.g. construction.

Please note that notwithstanding any site observations concerning the presence or otherwise of archaeological sites, asbestos-containing materials or invasive weeds, this report does not constitute a formal survey of these potential constraints and specialist advice should be sought.

Any site boundary line depicted on plans does not imply legal ownership of land.

10. RECOMMENDATIONS FOR FURTHER WORK

Following the ground investigation works undertaken to date, the following further works will be required:

- demolition asbestos survey;
- obtain an updated CON29M report from the coal authority;
- Undertaking an additional two boreholes in the east of the site to complete detailed design of the piling. An additional borehole would also be beneficial along the NW side of the proposed westernmost apartment building.
- discussion with specialists with regard to horsetail;
- specialist UXO/UXB risk assessment in accordance with CIRIA Report C681 with regard to construction risk;
- completion and reporting of the ongoing gas monitoring, hence the conclusions in this report are provisional, subject to the completion of monitoring;
- supplementary ground investigation and assessment in accordance with ADEPT & CWF Guidance (August 2019) to fully assess potential bituminous bound pavement arisings with regards to the presence of coal tar and waste disposal;
- discussion and agreement with utility providers regarding the materials suitable for pipework;
- discussions with regulatory bodies and the warranty provider regarding the conclusions of this report;
- completion of further detailed risk assessment relating to groundwater to assess the risk to controlled waters posed specifically by Ammonium, Hydrocarbons, Total Cyanide and Thiocyanate;
- discussions with piling contractors regarding the conclusions of this report and design of the piles;
- provision of geotechnical design for the Category 2 structures (earthworks, retaining, floor slabs, foundations);
- production of a Remediation Strategy and Verification Plan (and agreement with the regulatory bodies and the warranty provider);
- production of a Materials Management Plan relating to reuse of soils at the site and import of soils to the site;
- remediation and mitigation work; and
- verification of the earthworks, remediation and mitigation works.

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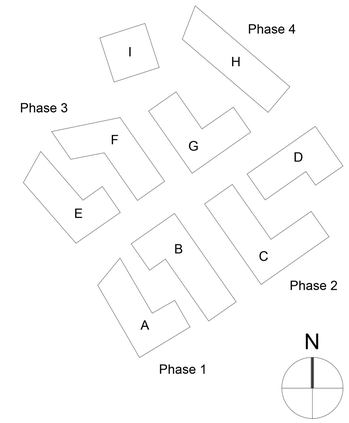
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Appendix A Drawings





Rev	Description	Date	Dr by	App by
2	Planning issue	31.08.20	AW	DB
1	Pre-Planning Issue	07.08.20	AW	DB

original by	date created	approved by
AW	06/22/20	DB

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DRAFT

client name: Southvalley Estates Ltd

project: The Gasworks New Town - Site

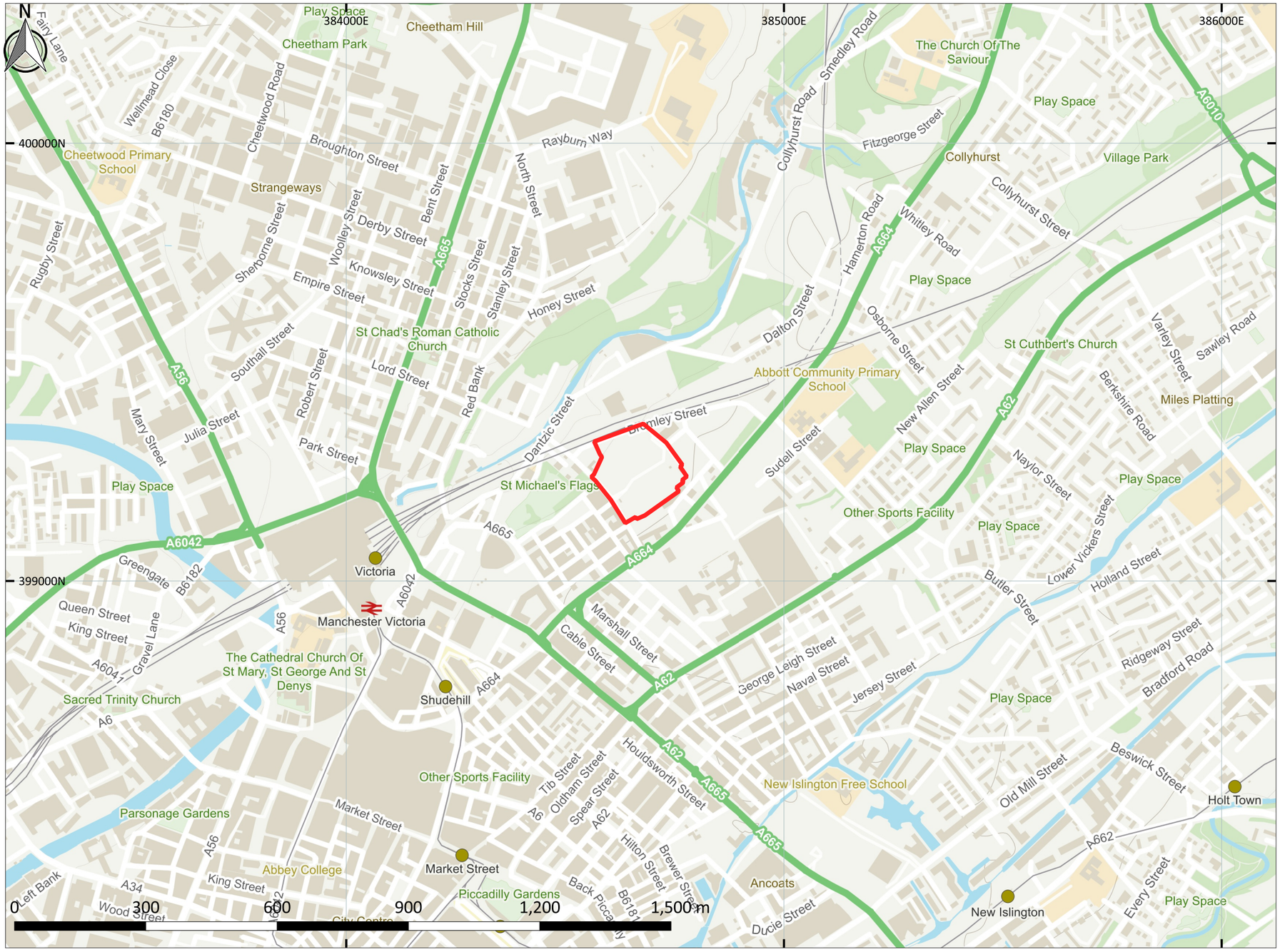
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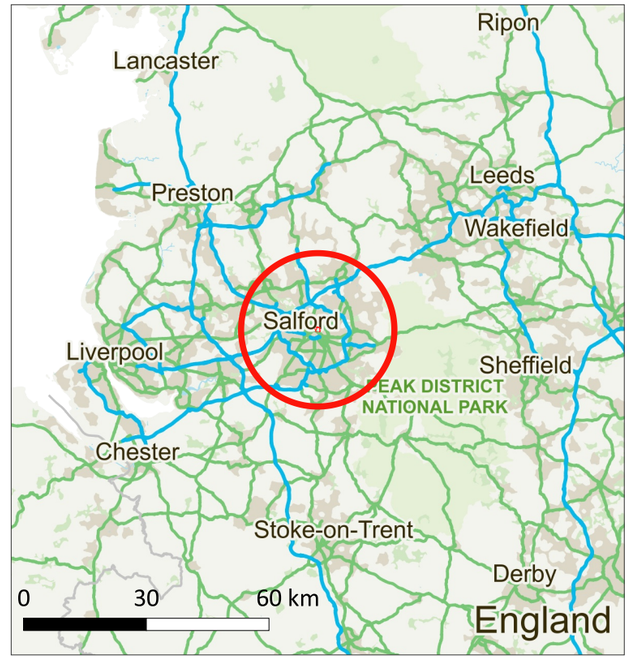
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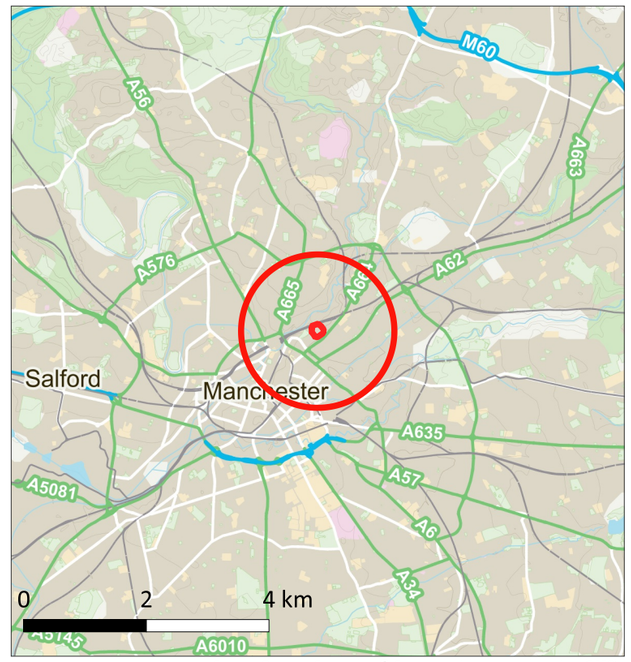
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drawing number	rev	issue status
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This drawing is to be read in conjunction with all related drawings. All dimensions must be checked and verified on site before commencing any work or producing shop drawings. The originator should be notified immediately of any discrepancy.
This drawing is copyright and remains the property of AHR.







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KEY PLAN

Site Boundary

NOTES

1. Contains OS data © Crown copyright and database right (2021)

REVISIONS

REV.	DRAWN BY INITIALS	CHECKED BY INITIALS	DATE	REVISION NOTES/COMMENTS
P01	LW	AC	17/01/22	First issue

Hydrock

TITLE
SITE LOCATION PLAN

HYDROCK PROJECT NO.
21353

SCALE @ A3
1:10,000

CLIENT
Crowning Developments Limited

PURPOSE OF ISSUE
SUITABLE FOR INFORMATION

STATUS
S2

PROJECT
Gould Street, Manchester

DRAWING NO.
21353-HYD-XX-XX-DR-GE-1001

REVISION
P01

OS NORTH

PRESSURE REDUCTION STATION

PHASE 4

PHASE 3

PHASE 2

PHASE 1

RADIO MAST

OPEN SIDED STORAGE AREA

CONCRETE SLAB OF FORMER CALL CENTRE

PIGGING COMPOUND

RETAINING WALL

LANDSCAPING

MATURE TREES

OFFICE & WELFARE BUILDINGS

ELECTRICAL SUBSTATION / GAS INFRASTRUCTURE

CATACOMBS

BRICK BASES FROM FORMER BOILER

ABOVE GROUND DEMOLITION FILL AND STOCKPILES OVERGROWN WITH HORSETAIL

EVIDENCE OF FORMER COLUMN LOCATIONS ACROSS SLAB

BUDDLEIA

LANDSCAPING

MATURE TREES

BROMLEY STREET

PARLANE STREET

WILLIAMSON STREET

BILBROOK STREET

BURSTOCK STREET

PEARY STREET

BACK ST GEORGES ROAD

TEBBUTT STREET

ROCHDALE ROAD

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OLD MOUNT STREET

GOULD STREET

NAPLES STREET

LUDGATE HILL

HINTON STREET

384600E

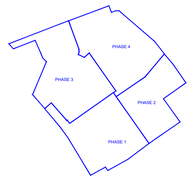
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384800E

399300N

399200N

KEY



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

REV.						
P1	FIRST ISSUE					
	LW	17/12/21	AC	17/12/21	DH	17/12/21
	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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CLIENT

CROWNING DEVELOPMENTS LIMITED

PROJECT

GOULD STREET

TITLE

SITE FEATURES PLAN

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1002	P1

OS NORTH

PRESSURE REDUCTION STATION

Approximate location of water well (below ground water tank). Completely removed during SI works. Excavated to 2.5m bgl.

Ammonia Plant/ Washer / Scrubber area

Holder No. 1

Holder No. 2

Holder No. 3

Holder No. 5

Tar Tank 1

Tar Tank 2

Condensors / Purifiers

RADIO MASTER

OPEN SIDED STORAGE AREA

PIGGING COMPOUND

WS13 localised contamination area. Max excavation ~ 2.45m bgl

WS04A shallow hydrocarbon contamination

WS301 contamination

WS01 shallow tar contamination

RETAINING WALL

Tar wells area (upper level) ~ tar well brick bases and walls remain ~ 5.3m bgl

Ammonia Plant Area (upper level). Maximum excavation ~ 6m bgl

OFFICE & WELFARE BUILDINGS

ELECTRICAL SUBSTATION / GAS INFRASTRUCTURE

BROMLEY STREET

PARLANE STREET

WILLIAMSON STREET

BILBROOK STREET

BURSTOCK STREET

PEARY STREET

BACK ST GEORGE'S ROAD

JUTT STREET

ROCHDALE ROAD

MOORHEAD STREET

CLIVE STREET

GOULD STREET

OLD MOUNT STREET

NAPLES STREET

LUDGATE HILL

384600E

384700E

384800E

399300N

399200N

Works

Depot

Garage

Factory

Warehouse

Sudell Street Industrial Estate

El Sub Sta

MEB COMPOUND

Police Station

KEY



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Proposed Buildings:

- Proposed Building
- A — Block Name
- 30 — No. Floors

Remediation Summary

- Below-ground infrastructure remaining in place. Includes Gasholder / Tar Tanks walls and bases
- Contents removed and replaced with either imported fill / PFA / ballast / ex-situ stabilised re-used materials
- In-situ remediation (stabilisation)
- Contents retained, low permeability capping layer emplaced
- Shallow excavation of contaminated soils and backfill with imported or site-won materials.
- VXXXX — AMEC 2011 Validation Sample (Base & sides of excavations)
- Remaining areas previously identified as requiring remediation. Main source zone is Tar Tank No. 1.

REV.	FIRST ISSUE / REVISION NOTES/COMMENTS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
P1	FIRST ISSUE	LW	17/12/21	AC	17/12/21	DH	17/12/21

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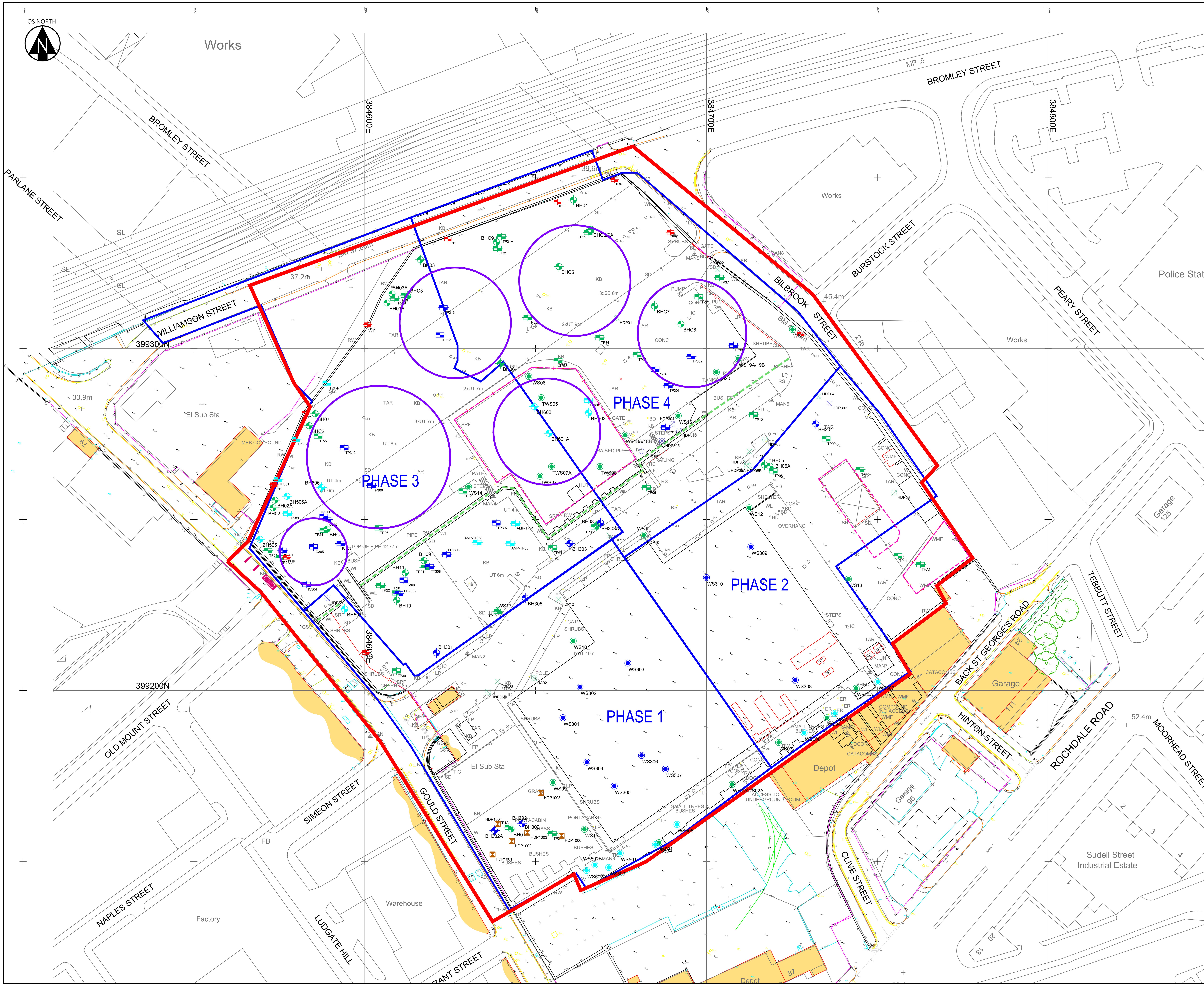
PROJECT
GOULD STREET

TITLE
EXISTING REMEDIATION SUMMARY PLAN

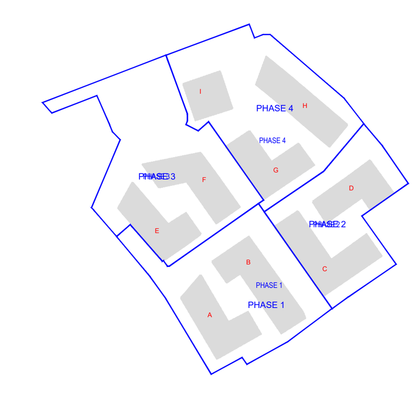
HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-0004	P1



KEY



NOTES

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2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information: 200414_Merged-Topography

Key:

- Retaining Wall (red solid line)
- Development Phases (blue solid line)
- Retaining Wall (green dashed line)
- Retained Gas Infrastructure Land (magenta dashed line)
- Below-ground infrastructure remaining in place. Includes Gasholder / Tar Tanks walls and bases (purple solid line)

Historical Site Investigation

Parkman - 1992

- TPXX — TRIAL PIT

Entec - 2002

- HDPXX — HAND DUG TRIAL PIT
- TPXX — TRIAL PIT
- WSXX — WINDOW SAMPLE
- BHXX — BOREHOLE

Entec - 2009

- IC3XX / TP3XX / TT3XX — TRIAL PIT / TRIAL TRENCH
- WS3XX — WINDOW SAMPLE
- BH3XX — BOREHOLE

Amec - 2011

- TP5XX — TRIAL PIT
- WS5XX — WINDOW SAMPLE
- BH5XX / BH6XX — BOREHOLE

WYG - 2014

- HDP10XX — HAND DUG PIT

REV.	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
P1	FIRST ISSUE					
	LW	17/12/21	AC	17/12/21	DH	17/12/21

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PROJECT
GOULD STREET

TITLE
HISTORICAL SITE INVESTIGATION PLAN

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1005	P1

OS NORTH

PHASE 4

PHASE 3

PHASE 2

PHASE 1

BROMLEY STREET

PARLANE STREET

WILLIAMSON STREET

BILBROOK STREET

BURSTOCK STREET

PEARY STREET

TEBBUTT STREET

BACK ST GEORGE'S ROAD

HINTON STREET

ROCHDALE ROAD

MOORHEAD STREET

OLD MOUNT STREET

SIMEON STREET

GOULD STREET

NAPLES STREET

LUDGATE HILL

CLIVE STREET

384600E

384700E

384800E

399300N

399200N

Works

Police Station

Garage

Depot

Sudell Street Industrial Estate

Factory

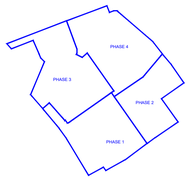
Warehouse

El Sub Sta

MEB COMPOUND

BH01 BH02 BH02A BH03A BH03B BH04 BH05A BH06 BH07 BH08 BH09 BH10 BH301 BH302A BH304 BHC1 BHC2 BHC3 BHC6 BHC7 MPBH701 MPBH702 MPBH703a MPBH704 MPBH705 MPBH706 MPBH707a MPBH708 MPBH709 MPBH710 MPBH712 MPBH713 MPBH714s MPBH714d MPBH715 MPBH716 TWS05 TWS07A WS10 WS11 WS301 WS302 WS303 WS304 WS306 WS307 WS308 WS702 WS703 WS704 WS705 WS920

KEY



NOTES

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3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Monitoring Points

Current Locations

- Made Ground
- Glacial Deposits
- Sandstone

Former Locations

- Made Ground
- Glacial Deposits
- Sandstone

Destroyed during remediation works or lost

REV.						
P1	FIRST ISSUE					
	LW	17/12/21	AC	17/12/21	DH	17/12/21
	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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PROJECT
GOULD STREET

TITLE
MONITORING LOCATIONS

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)
21353-HYD-XX-XX-DR-GE-1006

REVISION P1

OS NORTH

Label	Structure
1a	*Solmo distillery*
1b	*Naphtho distillery*
1c	*Cisterns*
1d	*Boilers*
1e	*Retort*
1f	*Furnaces*
1g	*Gasometer*
1h	*Circular Structure*
1i	*Circular Structure*
1j	*Miscellaneous Building*
2a	Gas holder 5
2b	Gas holder 1
2c	Gas holder 2
2d	Gas holder 3
2e	Unknown square structures
2f	Stables
2g	Six circular structures (suspected washers/scrubbers)
2h	Six circular structures (suspected washers/scrubbers)
2i	Offices
2j	Retort 'A'
2k	Retort 'B'
2l	Retort 'C'
2m	Retort 'D'
2n	Coal storage
2o	Purifiers (suspected)
3a	Purifiers
3b	Valve pits
3c	Washers/scrubbers
3d	Exhausters
3e	Boiler House
3f	Waste Water Treatment/Storage
3g	Valve House
4a	Electrical Engines
4b	Tar Well 2 (possibly base of 1a)
4c	Meter House
4d	Mechanics Shop
4e	Smithy
4f	Garages
4g	Condensers
4h	Tar Well 1 (possibly base of not shown gas holder 4)
4i	Washer Scrubber
5a	Coal storage hopper and conveyor
5b	Extended buildings and concentrated ammonia plant
5c	Tanks possibly associated with benzol plant
5d	Benzole plant
5e	Liquid purification plant
6a	Concentrated ammonia plant
6b	Square Structure
7a	Electrical substation
8a	Gas/oil, Diesel, Petrol storage and dispensing

KEY



NOTES

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2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

4. Historical features based on Entec 2009 Figure 3, with the 1848 structures modified following availability of large-scale 1848 OS map which was previously unavailable. Locations are based on geo-referencing and original survey quality and as such are only approximate. Accuracy for the older structures will be more uncertain.

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Historical Features Key

- 1848 OS Map (large scale)
- 1851 Pigot
- 1893-94 OS Map
- 1908-09 OS Map
- 1920-1940 Work Plan
- 1949 OS Map
- 1960-62 OS Map
- 1970 OS Map
- 1991 Work Plan

REV.	FIRST ISSUE					
P1	LW	17/12/21	AC	17/12/21	DH	17/12/21
	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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PROJECT
GOULD STREET

TITLE
HISTORICAL FEATURES PLAN

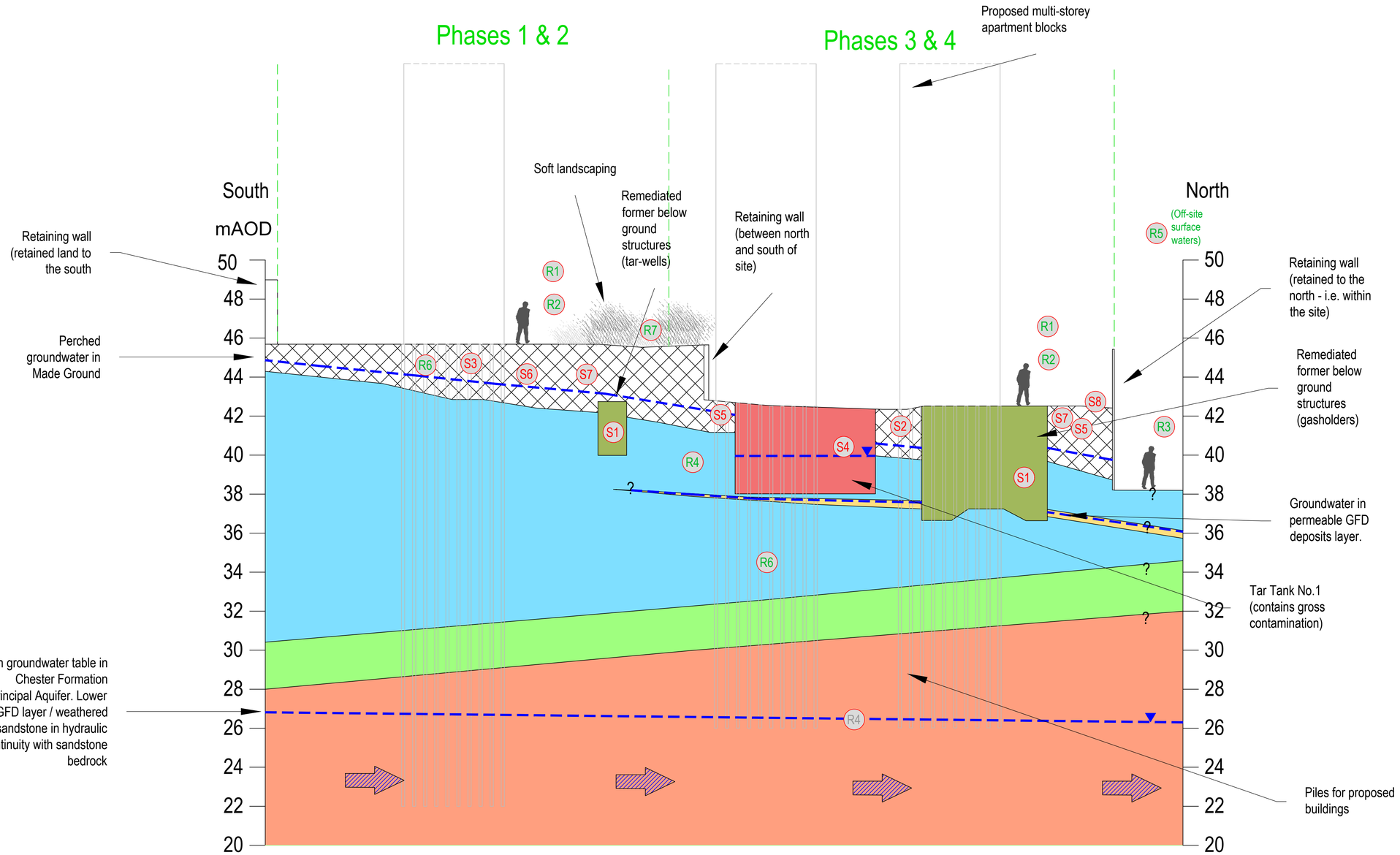
HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 21353-HYD-XX-XX-DR-GE-1007

REVISION P1

OS NORTH



KEY

- Made Ground
- Glacial Till
- Glacio-fluvial Deposits - granular bands within Glacial Till {likely impersistent}
- Weathered Sandstone / lower Glacio-fluvial Deposits {indeterminate designation}
- Chester Formation Sandstone
- Groundwater Flow Direction
- Groundwater Level

SOURCES

- S1 Previously remediated sources areas within underground structures
- S2 Previously remediated sources areas outwith underground structures (Phases 3 & 4)
- S3 Previously remediated WS13 area (Phase 2)
- S4 Contents of Tar Tank No.2
- S5 Unremediated known source areas (Phase 3&4)
- S6 Unremediated known source areas (Phase 1&2)
- S7 Residual contamination in Made Ground / previously uninvestigated areas
- S8 Former substation (Phase 3)

PATHWAYS

- P1 Dermal contact / ingestion
- P2 Inhalation of dust
- P3 Inhalation of soil-derived vapours
- P4 Inhalation of groundwater-derived vapours
- P5 Migration of free-phase NAPL
- P6 Leaching and downwards migration of contaminants
- P7 Migration via preferential pathways (e.g. piles)
- P8 Groundwater migration
- P9 Direct contact with infrastructure
- P10 Plant uptake

RECEPTORS

- R1 Site end-users
- R2 Visitors
- R3 Neighbours
- R4 Groundwater
- R5 Surface water
- R6 Built environment
- R7 Plant Life

KEY

NOTES

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REV.	REVISION NOTES/COMMENTS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
P1	FIRST ISSUE	LW	17/12/21	AC	17/12/21	DH	17/12/21

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CLIENT
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PROJECT
GOULD STREET

TITLE
PRELIMINARY CONCEPTUAL SITE MODEL

HYDROCK PROJECT NO.	SCALE @ A1
21353	NTS

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1008	P1

OS NORTH

Works

BROMLEY STREET

PARLANE STREET

WILLIAMSON STREET

BILBROOK STREET

BURSTOCK STREET

PEARY STREET

TEBBUTT STREET

BACK ST GEORGE'S ROAD

HINTON STREET

ROCHDALE ROAD

MOORHEAD STREET

OLD MOUNT STREET

SIMEON STREET

GOULD STREET

CLIVE STREET

NAPLES STREET

LUDGATE HILL

384600E

384700E

384800E

399300N

399200N

39.6m

37.2m

45.4m

33.9m

52.4m

PHASE 1

PHASE 2

PHASE 3

PHASE 4

Police Station

El Sub Sta

MEB COMPOUND

Depot

Garage

Factory

Warehouse

Sudell Street Industrial Estate

KEY



NOTES

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3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land
- Below-ground infrastructure remaining in place. Includes Gasholder / Tar Tanks walls and bases

Historical Site Investigation

Parkman - 1992

- TRIAL PIT

Entec - 2002

- HAND DUG TRIAL PIT
- TRIAL PIT
- WINDOW SAMPLE
- BOREHOLE

Entec - 2009

- TRIAL PIT / TRIAL TRENCH
- WINDOW SAMPLE
- BOREHOLE

Amec - 2011

- TRIAL PIT
- WINDOW SAMPLE
- BOREHOLE

WYG - 2014

- HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021

- TRIAL PIT
- WINDOW SAMPLE
- BOREHOLE

REV.	FIRST ISSUE / REVISION NOTES/COMMENTS					
P1	LW	17/12/21	AC	17/12/21	DH	17/12/21
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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PROJECT

GOULD STREET

TITLE

COMBINED SITE INVESTIGATION PLAN

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500
PURPOSE OF ISSUE: SUITABLE FOR INFORMATION	STATUS: S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER): 21353-HYD-XX-XX-DR-GE-1009	REVISION: P1

m bgl

OS NORTH

Scale

5
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6

m AOD

Scale

45.4
45.2
45
44.8
44.6
44.4
44.2
44
43.8
43.6
43.4
43.2
43
42.8
42.6
42.4
42.2
42
41.8
41.6
41.4
41.2
41
40.8

NOTES

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2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information:
xxxxxxx

Key:

Retaining Wall

Development Phases

Historical Site Investigation

Parkman - 1992

TPXX — TRIAL PIT

Entec - 2002

HDPXX — HAND DUG TRIAL PIT

TPXX — TRIAL PIT

WSXX — WINDOW SAMPLE

BHXX — BOREHOLE

Entec - 2009

TC3XX / TP3XX / TT3XX — TRIAL PIT / TRIAL TRENCH

WS3XX — WINDOW SAMPLE

BH3XX — BOREHOLE

Amec - 2011

TP5XX — TRIAL PIT

WS5XX — WINDOW SAMPLE

BH5XX / BH6XX — BOREHOLE

WYG - 2014

HDP10XX — HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021

TP7XX — TRIAL PIT

WS7XX — WINDOW SAMPLE

MPBH7XX — BOREHOLE

REV.						
P1	FIRST ISSUE					
	RS	02/02/22	RS	02/02/22	DH	02/02/22
REV.	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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CLIENT

CROWNING DEVELOPMENTS LIMIITED

PROJECT

GOULD STREET

TITLE

PHASE 1 AND 2

BASE OF MADE GROUND

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1010	P1

OS NORTH

m bgl

Scale

16.5
16
15.5
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
9.5

NOTES

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3. This drawing has been based on the following drawings and information:
xxxxxxx

Key:

- Retaining Wall
- Development Phases

Historical Site Investigation

Parkman - 1992
- TPXX — TRIAL PIT

Entec - 2002
- HDPXX — HAND DUG TRIAL PIT
- TPXX — TRIAL PIT
- WSXX — WINDOW SAMPLE
- BHXX — BOREHOLE

Entec - 2009
- IC3XX / TP3XX / TT3XX — TRIAL PIT / TRIAL TRENCH
- WS3XX — WINDOW SAMPLE
- BH3XX — BOREHOLE

Amec - 2011
- TP5XX — TRIAL PIT
- WS5XX — WINDOW SAMPLE
- BH5XX / BH6XX — BOREHOLE

WYG - 2014
- HDP10XX — HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021
- TP7XX — TRIAL PIT
- WS7XX — WINDOW SAMPLE
- MPBH7XX — BOREHOLE

m AOD

Scale

36.5
36
35.5
35
34.5
34
33.5
33
32.5
32
31.5
31
30.5
30
29.5

REV.						
P1	FIRST ISSUE					
	RS	02/02/22	RS	02/02/22	DH	02/02/22
REV.	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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CROWNING DEVELOPMENTS LIMIITED

PROJECT

GOULD STREET

TITLE

PHASE 1 AND 2

TOP OF WEATHERED CHESTER FORMATION

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:500

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1011	P1

OS NORTH

PHASE 1

PHASE 2

PHASE 3

PHASE 4

Depot

El Sub Sta

GOULD STREET

CLIVE STREET

BACK

HIN

Garage 95

CATACOMBS

COMPOUND (NO ACCESS)

ACCESS TO UNDERGROUND ROOM

SMALL TREES & BUSHES

RAISED PIPE

RAILING

SHRUBS

PORTACABIN

CON. UNIT

SHELTER

OVERHANG

RAMP

DOOR

BH602 BH603 BH601A BH304 BH05 BH05A BH08 BH303A BH303 BH09 BH11 BH10 BH301 BH305 BH302 BH302A BH01

TP306 TP26 TP22 TP20 TP21 TP308 TT308 TT309 TT309A TP39 TP23 TP307 TP04 TP05 TP06 TP08 TP09 TP10 TP11 TP12 TP711 TP715 TP720 TP719 TP718 TP712 TP713 TP716 TP717 TP714 TP710 TP722 TP704 TP707 TP709 TP703 TP19 TP1A

WS14 WS16 WS18A/18B WS17 WS12 WS703 WS309 WS13 WS310 WS702 WS303 WS302 WS301 WS704 WS306 WS304 WS307 WS305 WS309 WS15 WS501 WS502B WS503 WS502A WS504 WS505 WS506 WS507 WS508 WS701 WS03 WS04A

TWS07 TWS07A TWS08

MPBH714 MPBH716 MPBH709 MPBH706 MPBH710 MPBH713 MPBH707 MPBH707a MPBH708 MPBH711 MPBH712 MPBH704 MPBH702 MPBH703 MPBH703a MPBH705 MPBH701

AMP-TP01 AMP-TP02 AMP-TP03

HDP03 HDP04 HDP05 HDP05A HDP05B HDP06 HDP06A HDP07 HDP08 HDP10 HDP11 HDP12 HDP303 HDP304 HDP305 HDP306 HDP310 HDP1001 HDP1002 HDP1003 HDP1004 HDP1005 HDP1006

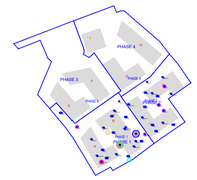
THA1 HA02

3xUT 7m UT 8m UT 4m 4xUT 10m

PIPE PIPE 42.77m

CHERRY 8m

KEY



NOTES

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3. This drawing has been based on the following drawings and information: 200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Proposed Buildings:

- Proposed Building
- A Block Name
- 30 No. Floors

Historical Site Investigation

Parkman - 1992

- TPXX TRIAL PIT

Entec - 2002

- HDPXX HAND DUG TRIAL PIT
- TPXX TRIAL PIT
- WSXX WINDOW SAMPLE
- BHXX BOREHOLE

Entec - 2009

- TPXX / TPXXX / TTXXX TRIAL PIT / TRIAL TRENCH
- WSXXX WINDOW SAMPLE
- BHXXX BOREHOLE

Amec - 2011

- TPXXX TRIAL PIT
- WSXXX WINDOW SAMPLE
- BHXXX / BH6XX BOREHOLE

WYG - 2014

- HDP10XX HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021

- TPXXX TRIAL PIT
- WSTXX WINDOW SAMPLE
- MPBHTXX BOREHOLE

Contamination (Made Ground):

- SUSPECTED ASBESTOS CONTAINING MATERIAL
- LABORATORY NON-VISIBLE ASBESTOS FIBRES
- ELEVATED PETROLEUM HYDROCARBONS
- ELEVATED BENZENE
- ELEVATED 1,2,4-TRIMETHYLBENZENE
- CONCENTRATIONS OF SVOCS >20mg/kg
- ELEVATED STYRENE

REV.	FIRST ISSUE / REVISION NOTES/COMMENTS	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
P1	FIRST ISSUE	RS	01/02/22	AC	01/02/22	DH	01/02/22

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CLIENT

CROWNING DEVELOPMENTS LIMITED

PROJECT

GOULD STREET

TITLE

PHASE 1 & 2
CONTAMINATION PLAN

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:250

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1012	P01

PHASE 1

PHASE 2

PHASE 3

PHASE 4

A

B

C

D

E

F

G

0.00 to 2.10m (brick wall)

1.00m to 1.60m (brick wall and brick base)

1.00m to 1.30m (brick wall)

1.90m (brick wall)

1.20m to 2.40m (brick wall)

0.25m to 1.15m (suspected footing)

2.00 to 4.00m (concrete slab)

0.80m to 1.00m (concrete slab)

0.20m (concrete obstruction)

0.25m (concrete obstruction)

0.75m (concrete slab)

0.80m (concrete obstruction)

0.85m (concrete slab)

3.50m to 3.70m (concrete obstruction)

4.00m (concrete obstruction)

1.55m (concrete slab)

0.40m to 1.10m (concrete slab)

0.75m to 1.10m (concrete slab)

0.60m to 1.10m (concrete slab)

0.50m to 0.70m (concrete slab)

0.80m (concrete obstruction)

0.80m (concrete obstruction)

0.65m (concrete obstruction)

3.00m to 4.00m (concrete slab and brickwork)

1.40m (concrete slab)

1.35m to 2.00m (concrete slab)

2.20m to 4.00m (concrete slab and brick work)

1.00m (concrete slab)

TOP OF PIPE 42.77m

BACK ST GEORGE'S RD

HINTON STREET

GOULD STREET

SIMEON STREET

CLIVE STREET

Depot

Warehouse

Garage

Garage 95

El Sub Sta

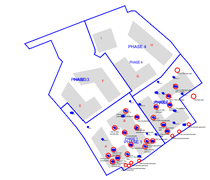
COMPOUND (NO ACCESS)

CATACOMBS

ACCESS TO UNDERGROUND ROOM

OS NORTH

KEY



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information: 200414_Merged-Topography

Key:

- Retaining Wall
- Development Phasing
- Obstructions (Relict slabs, footings or walls) x.xxm to x.xxm

Proposed Buildings:

- Proposed Building
- A Block Name
- 30 No. Floors

Historical Site Investigation

Parkman - 1992

- TPXX TRIAL PIT

Entec - 2002

- HDPXX HAND DUG TRIAL PIT
- TPXX TRIAL PIT
- WSXX WINDOW SAMPLE
- BHXX BOREHOLE

Entec - 2009

- TPXX / TPXXX / TTXXX TRIAL PIT / TRIAL TRENCH
- WSXXX WINDOW SAMPLE
- BHXXX BOREHOLE

Amec - 2011

- TPXXX TRIAL PIT
- WSXXX WINDOW SAMPLE
- BHSXX / BHBXX BOREHOLE

WYG - 2014

- HDPXXX HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021

- TPXXX TRIAL PIT
- WSTXX WINDOW SAMPLE
- MPBHTXX BOREHOLE

REV.	FIRST ISSUE					
P1	RS	01/02/22	AC	01/02/22	DH	01/02/22
	REVISION NOTES/COMMENTS					
REV.	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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CLIENT

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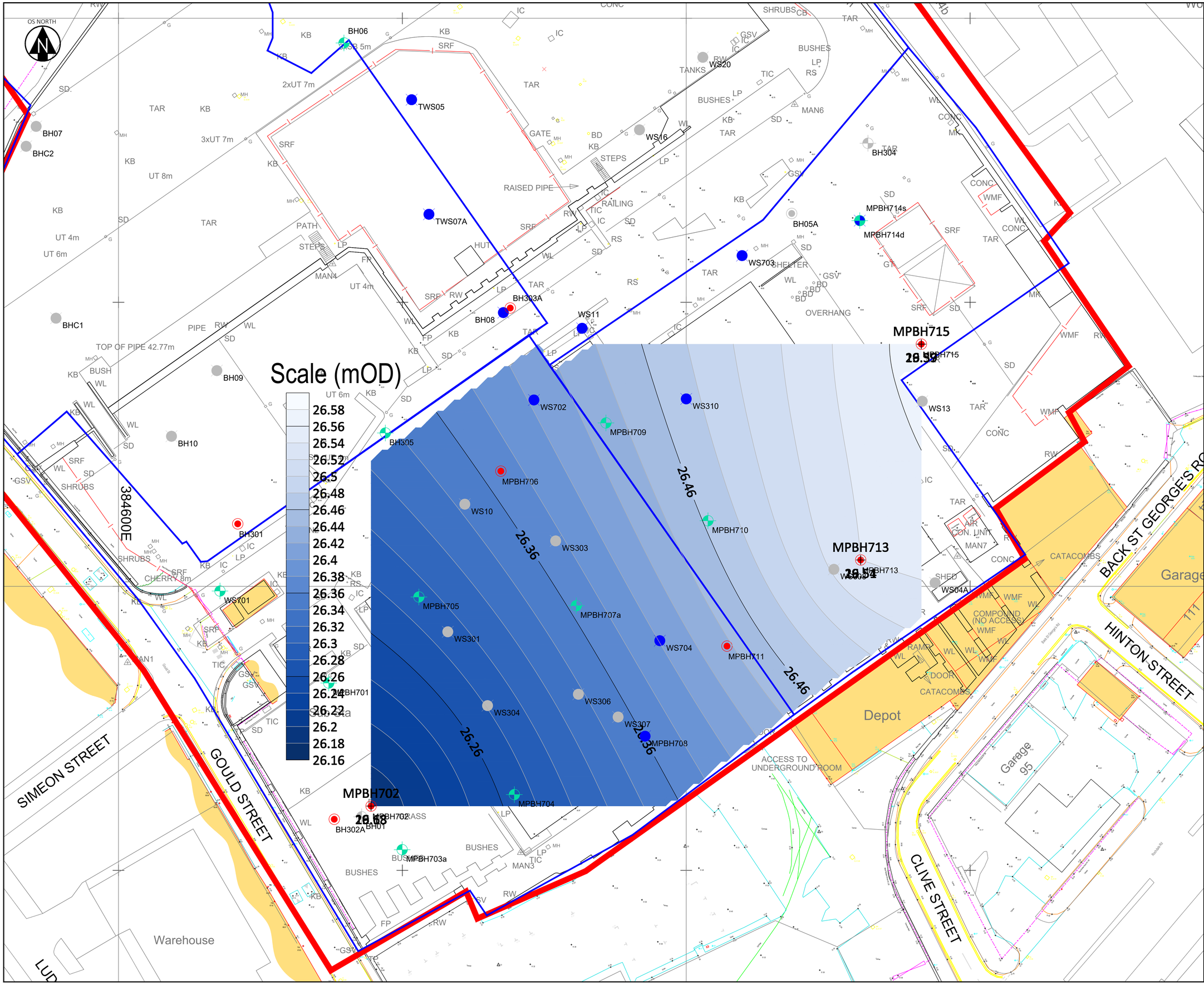
PROJECT

GOULD STREET

TITLE

PHASE 1 & 2
OBSTRUCTIONS PLAN

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:300
PURPOSE OF ISSUE: SUITABLE FOR INFORMATION	STATUS: S2
DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER): 21353-HYD-XX-XX-DR-GE-1013	REVISION: P01



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases

Monitoring Points

Current Locations

- Made Ground
- Glacial Deposits
- Sandstone

Former Locations

- Made Ground
- Glacial Deposits
- Sandstone

Destroyed during remediation works or lost

REV.						
P1	FIRST ISSUE					
	RS	01/02/22	AC	01/02/22	DH	01/02/22
REV.	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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PROJECT
GOULD STREET

TITLE
PHASE 1 & 2
SANDSTONE GROUNDWATER CONTOURS

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:300

PURPOSE OF ISSUE	STATUS
SUITABLE FOR INFORMATION	S2

DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)	REVISION
21353-HYD-XX-XX-DR-GE-1014	P01

OS NORTH

PHASE 1

PHASE 2

PHASE 3

PHASE 4

A

B

C

D

E

F

G

0.60m to 1.30m
2.80m to 3.10m
PIDs: 23.8 to 62ppm
(1.20 to 1.80m and 3.00m)

3.80m to 4.20m

0.85m to 1.00m
1.00m to 1.40m

0.22m to 1.35m odour
and staining

0.65m to 1.20m
1.20m to 1.50m
PIDs: 41.8ppm (1.30m)

1.00m to 4.50m

0.95m to 1.20m Odour
1.30m to 1.70m Sheen
PIDs: 454.2ppm (1.40m)

1.00m
PID: 880ppm

0.50m

1.00m and 1.50m Staining

2.00m Staining and Odour
PIDs: 220 to 530ppm
(1.00 to 2.00m)

0.70m and 1.60m
PIDs: 75 and 178ppm (0.70 and 1.60m)

0.50m to 2.30m

0.80m to 1.00m Odour
1.10m to 1.50m Odour
and Sheen

2.00m
PID: 18.7ppm

1.30m to 1.80m

0.95m to 1.30m

1.30m to 1.60m

1.00m to 1.30m

15.50m

3.50m

KEY



NOTES

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2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information:
200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Proposed Buildings:

- Proposed Building
- A Block Name
- 30 No. Floors

Key:

- Diesel or Hydrocarbon Odour — x.xxm to x.xxm
- Oily Staining — x.xxm to x.xxm
- Sweet Solvent Odour — x.xxm to x.xxm
- Visual Sheen — x.xxm to x.xxm

Historical Site Investigation

Parkman - 1992

- TPXX TRIAL PIT

Entec - 2002

- HDPXX HAND DUG TRIAL PIT
- TPXX TRIAL PIT
- WSXX WINDOW SAMPLE
- BHXX BOREHOLE

Entec - 2009

- TPXX / TPXXX / TT3XX TRIAL PIT / TRIAL TRENCH
- WS3XX WINDOW SAMPLE
- BH3XX BOREHOLE

Amec - 2011

- TPXXX TRIAL PIT
- WSXXX WINDOW SAMPLE
- BHSXX / BH6XX BOREHOLE

Hydrock Site Investigation

Hydrock - 2021

- TPXXX TRIAL PIT
- WS7XX WINDOW SAMPLE
- MPBHXXX BOREHOLE

WYG - 2014

- HDP10XX HAND DUG PIT

REV.	FIRST ISSUE							
P1	LW	01/02/22	RS	02/02/22	DH	02/02/22		
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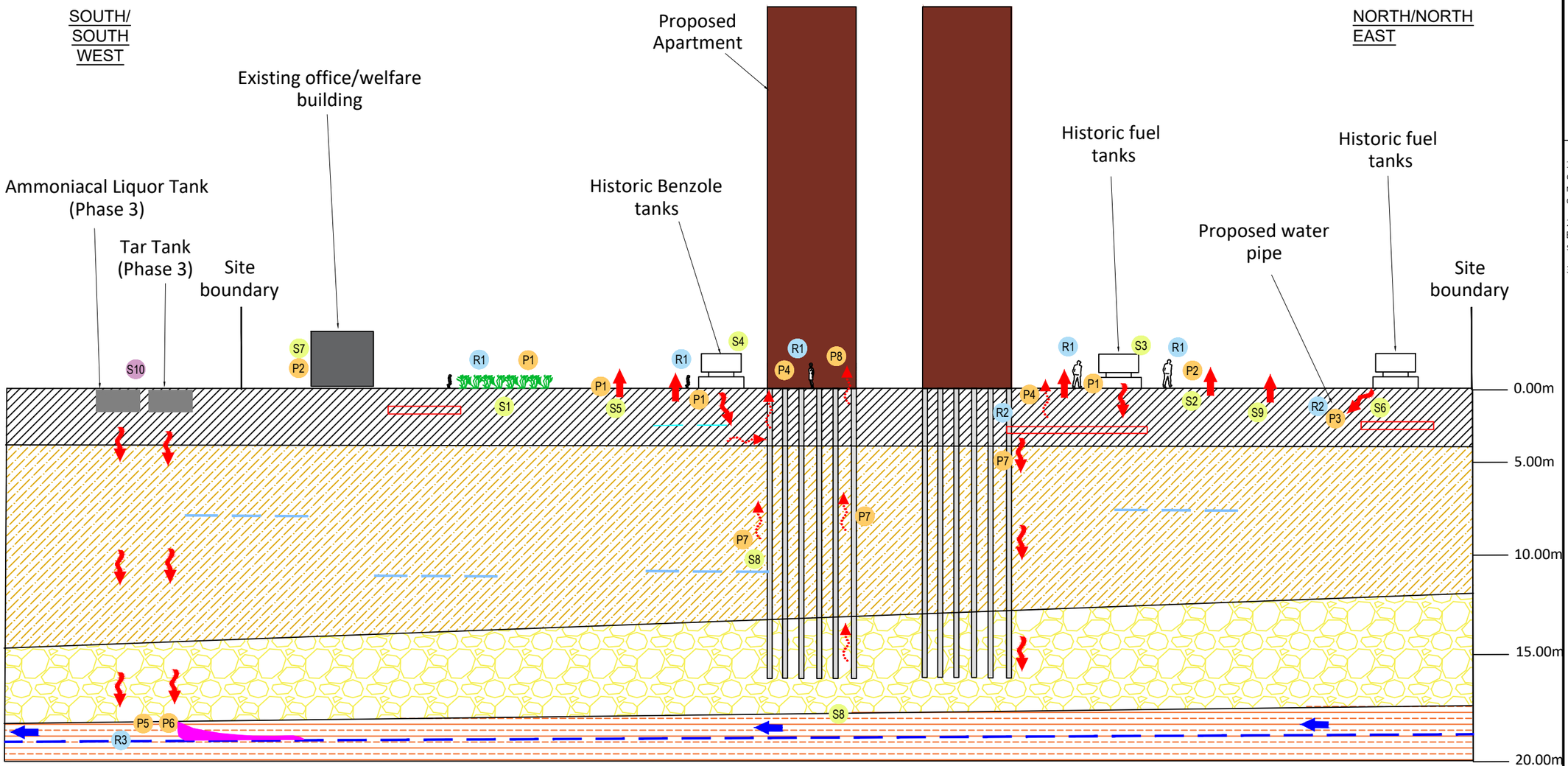
PROJECT

GOULD STREET

TITLE

PHASE 1 & 2 VISUAL AND OLFACTORY ODOURS PLAN IN SOILS

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:300
PURPOSE OF ISSUE: SUITABLE FOR INFORMATION	STATUS: S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER): 21353-HYD-XX-XX-DR-GE-1015	REVISION: P1



Potential Pathways

DERMAL CONTACT, INGESTION, INHALATION

LEACHING DISSOLUTION

VAPOUR

GROUNDWATER FLOW

Sources of Contamination (Onsite)

- S1 Pervasive arsenic and PAHs in the Made Ground.
- S2 Asbestos fibres in soil or asbestos-containing materials in the Made Ground
- S3 Petroleum hydrocarbons within the Made Ground or visual of olfactory evidence of hydrocarbon contamination.
- S4 Presence of benzene, 1-2-4-Trimethylbenzene and concentrations of SVOCs.
- S5 Styrene present within WS704 at 1.20m bgl.
- S6 Elevated petroleum hydrocarbon aliphatic and aromatic EC >16-40, BTEX and MTBE at depths of pipework installation.
- S7 Asbestos fibres from insulation or asbestos-containing materials in the buildings.
- S8 Carbon Monoxide presence within the Glacial Till and Chester Formation forming from anaerobic conditions in the groundwater.
- S9 Buried bituminous materials possibly containing coal tar.

Potential off-site Sources of Contamination

- S10 Ammonium, Total Cyanide, Thiocyanate and hydrocarbons in groundwater in the Chester Formation from offiste sources within phase 3 and 4.

Potential Receptors

- R1 People (site end users).
- R2 Development end use (buildings, utilities and landscaping).
- R3 Groundwater: Principal aquifer status of the Chester Formation.
- R4 Surface water: River Irk 250m west, also present towards the north west at 290m

Potential Pathways

- P1 Ingestion.
- P2 Inhalation of fugitive dust.
- P3 Direct Contact. (Building and Utilities)
- P4 Inhalation of VOC.
- P5 Migration of contamination via baseflow within the deep groundwater.
- P6 Future abstraction.
- P7 Migration through pathways formed in the soils from piling.
- P8 End users of new buildings (asphyxiation).

NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing is indicative only.

Key

- Made Ground
- Glacial Till
- Weathered Chester Formation
- Chester Formation
- Deep Groundwater
- Shallow Perched Groundwater
- Groundwater in sand bands
- Oily sheens and pockets of hydrocarbon contamination
- Plume Migration

REV.						
P1	FIRST ISSUE					
	RS	01/02/22	DH	02/02/22	DH	01/02/22
REV.	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

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CLIENT
Crowning Developments Limited

PROJECT
Gould Street, Manchester

TITLE
Final Conceptual Site Model (Phase 1 and 2)

HYDROCK PROJECT NO.	SCALE @ A3
C-21353-C	Not to scale
PURPOSE OF ISSUE: SUITABLE FOR INFORMATION	STATUS: S2
DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER): 21353-HYD-XX-XX-DR-GE-1016	REVISION: P1

Appendix B Exploratory Hole Location Plan, Exploratory Hole Logs and Photographs

Exploratory Hole Location Plan

OS NORTH

PHASE 1

PHASE 2

PHASE 3

PHASE 4

A

B

C

D

E

F

G

Depot

Warehouse

El Sub Sta

Garage

Garage 95

SIMEON STREET

GOULD STREET

BACK ST GEORGE'S

HINTON STREET

CLIVE STREET

LUD

KEY



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information: 200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Proposed Buildings:

- Proposed Building
- A — Block Name
- 30 — No. Floors

Constraints:

- Unable to investigate due to parked cars
- Unable to investigate due cadent engineers availability

Historical Site Investigation

Parkman - 1992

- TPXX — TRIAL PIT

Entec - 2002

- HDPXX — HAND DUG TRIAL PIT
- TPXX — TRIAL PIT
- WSXX — WINDOW SAMPLE
- BHXX — BOREHOLE

Entec - 2009

- TPXX / TPXXX / TTXXX — TRIAL PIT / TRIAL TRENCH
- WSXXX — WINDOW SAMPLE
- BHXXX — BOREHOLE

Amec - 2011

- TPXXX — TRIAL PIT
- WSXXX — WINDOW SAMPLE
- BHSXX / BHSXX — BOREHOLE

WYG - 2014

- HDPXXX — HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021

- TPXXX — TRIAL PIT
- WSTXX — WINDOW SAMPLE
- MPBHTXX — BOREHOLE

REV.	FIRST ISSUE						
P1	LW	14/01/22	RS	14/01/22	DH	14/01/22	
	REVISION NOTES/COMMENTS						
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	

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CLIENT

CROWNING DEVELOPMENTS LIMITED

PROJECT

GOULD STREET

TITLE

PHASE 1 & 2 SITE INVESTIGATION PLAN

HYDROCK PROJECT NO.	SCALE @ A1
21353	1:300
PURPOSE OF ISSUE: SUITABLE FOR INFORMATION	STATUS: S2
DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER): 21353-HYD-XX-XX-DR-GE-1003	REVISION: P01

Exploratory Hole Logs

Hydrock	Project: Gould Street	Borehole No MPBH701 Page No. 1 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 14/12/2021 - 16/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384637.04, 399182.98	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.23m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
									Black ASPHALT HARDSTANDING (BITUMINOUS MATERIAL)	0.20	(0.20)	45.03		
	1.00	ES							Dark brown sandy silty angular to subangular fine to coarse GRAVEL of brick, mudstone, sandstone, coal, concrete and limestone. Medium cobble content of brick and concrete. (MADE GROUND)	1.20	(1.00)	44.03		
1.20 - 2.00 87mm 100% rec	1.50	ES							Stiff high strength dark brown mottled grey slightly sandy to sandy slightly gravelly CLAY. Gravel is subangular fine and medium of mudstone and sandstone. (GLACIAL TILL)					
	1.50 - 2.00	B												
2.00 - 3.00 87mm 100% rec	2.00	SPT	N=12 (2,3,3,3,3,3)						*... From 2.00m bgl: no mottling.* *... Between 2.00m and 3.00m bgl: becomes sandy.*		(2.80)			
	2.00 - 2.45	D												
	2.50	ES												
3.00 - 4.00 87mm 100% rec	3.00	SPT	N=15 (1,3,2,4,4,5)											
	3.00 - 3.45	D												
	3.00 - 4.00	B								4.00		41.23		
4.00 - 5.00 87mm 100% rec	4.00	SPT	N=21 (1,3,3,4,7,7)						Very stiff high strength dark brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone and coal. (GLACIAL TILL)					
5.00 - 6.00 87mm 100% rec	5.00	SPT	N=23 (2,3,3,4,6,10)											
	5.00 - 5.45	D												
	6.00	SPT	N=35 (3,4,5,5,8,17)											
	6.00 - 6.45	D												
	7.50	SPT	N=25 (1,3,5,5,7,8)						*... From 7.50m bgl: becomes sandy.*		(6.95)			
	7.50 - 7.95	D												
											(11.00)			
									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	15/12	1530	20.52	18.75	127		Water/Air	Reddish orange

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 6.00m bgl. 4. Rotary open holing with SPTs from 6.00m to 18.00m bgl. 5. Rotary coring from 18.00m to 20.52m bgl. 6. Unable to advance casing past 18.75m bgl resulting in no recovery between 19.50m and 20.25m bgl. 7. Installed on completion with a response zone between 6.00m and 13.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH701 Page No. 2 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 14/12/2021 - 16/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384637.04, 399182.98	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.23m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.50 10.50 - 10.95	SPT D	N=29 (5,6,7,7,7,8)						Very stiff high strength dark brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone and coal. (GLACIAL TILL)	10.95		34.28		
									Very stiff high strength dark brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone and coal. (GLACIAL TILL) *... From 7.50m bgl: becomes sandy.*					
	15.00	SPT	50/0mm (10,15)						Light grey and light brown sandy medium to coarse angular to subrounded GRAVEL of sandstone and quartzite. (WEATHERED CHESTER FORMATION) *... From 15.00m bgl: gravel is dense.*	15.00	(8.05)	30.23		
18.00 - 19.50				40	8	0	80		*... Between 18.00 and 18.90m bgl: assumed zone of core loss due to weathered bedrock as sandy gravel.*		(4.00)			
	19.25 - 19.31 19.42 - 19.50	C C							Light grey and light brown sandy medium to coarse angular to subrounded GRAVEL of sandstone and quartzite. (WEATHERED CHESTER FORMATION) *... From 15.00m bgl: gravel is dense.* *... Between 18.00 and 18.90m bgl: assumed zone of core loss due to weathered bedrock as sandy gravel.*	19.00 19.25 19.50	(0.25) (0.25)	26.23 25.98 25.73		
									Reddish orange gravelly silty fine to coarse SAND. Gravel		(0.75)			
									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 6.00m bgl. 4. Rotary open holing with SPTs from 6.00m to 18.00m bgl. 5. Rotary coring from 18.00m to 20.52m bgl. 6. Unable to advance casing past 18.75m bgl resulting in no recovery between 19.50m and 20.25m bgl. 7. Installed on completion with a response zone between 6.00m and 13.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH701
Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 14/12/2021 - 16/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384637.04, 399182.98	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.23m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	20.25	SPT	50/190mm (4,1,4,23,23)						Reddish orange gravelly silty fine to coarse SAND. Gravel is angular to subangular medium and coarse of sandstone. (WEATHERED CHESTER FORMATION)	20.25		24.98		
	20.25 - 20.52	D							Weak reddish orange medium and coarse SANDSTONE. (CHESTER FORMATION)	20.52	(0.27)	24.71		
									No recovery: assumed highly fractured or extremely weak sandstone bedrock. (CHESTER FORMATION)					
									Sandstone bedrock recovered as; dense reddish orange silty fine to coarse SAND. (CHESTER FORMATION)					
									End of Borehole at 20.52m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 6.00m bgl. 4. Rotary open holing with SPTs from 6.00m to 18.00m bgl. 5. Rotary coring from 18.00m to 20.52m bgl. 6. Unable to advance casing past 18.75m bgl resulting in no recovery between 19.50m and 20.25m bgl. 7. Installed on completion with a response zone between 6.00m and 13.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH702
Page No. 1 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 09/12/2021 - 13/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384644.49, 399161.32	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.66m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	0.10 - 0.50	B							Grass over dark brown very sand silty angular to subrounded medium to coarse GRAVEL of brick, coal, limestone, sandstone, mudstone, quartz and concrete with rare rootlets and rare roots (up to 3mm in diameter). (MADE GROUND)	0.50	(0.50)	45.16		
									CONCRETE HARDSTANDING (CONCRETE)	0.70	(0.20)	44.96		
1.20 - 2.00 87mm 40% rec	1.50	SPT	N=13 (2,2,3,4,3,3)						Firm medium strength dark brown and orangish brown sandy gravelly CLAY with rare rootlets and medium cobble content. Gravel is angular to subangular fine to coarse of coal, sandstone and brick. Cobbles are subangular of brick. (MADE GROUND)	2.00	(1.30)	43.66		
	1.50 - 1.95	D												
2.00 - 3.00 77mm 40% rec														
	2.60 - 3.00	B							Very stiff very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone, coal and quartzite. (GLACIAL TILL)					
	2.80	HSV	87kPa											
3.00 - 4.00 77mm 100% rec	3.00	SPT	N=15 (2,2,3,4,4,4)											
	3.80	HSV	89kPa											
4.00 - 5.00 67mm 100% rec	4.00	SPT	N=20 (2,3,4,4,5,7)											
	4.00 - 4.45	D												
	4.80	HSV	94kPa											
	5.00	SPT	N=29 (4,4,5,6,9,9)											
	5.00 - 5.45	D												
	5.00 - 5.50	B									(7.00)			
	5.80	HSV	111kPa						... Between 5.60m and 5.70m bgl: band of light brown very silty fine and medium sand.					
	6.00	SPT	N=36 (3,5,7,7,10,12)											
	6.00 - 6.45	D												
	7.00 - 7.45	D												
	7.50	SPT	N=24 (4,4,5,6,6,7)											
	9.00	SPT	N=28 (3,5,5,7,8,8)							9.00		36.66		
	9.00 - 9.45	D							Very stiff very high strength dark brown very sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of quartzite, sandstone and mudstone. (GLACIAL TILL)					

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	09/12	1530	22.50	21.50	127		Water/Air	Reddish orange

General Remarks:
1. Hand dug inspection pit from ground level to 1.20m bgl. 2. Dynamic sampling from 1.20m to 6.00m bgl. 3. Rotary open holing with SPTs from 6.00m to 17.30m bgl. 4. Rotary coring from 17.30m to 22.50m bgl. 5. Unable to advance casing beyond 21.50m bgl due to casing becoming tight, therefore no recovery obtained between 22.00m and 22.50m bgl. 6. Installed on completion with a response zone between 13.00m and 21.00m bgl.

Groundwater: No groundwater enountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH702 Page No. 2 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 09/12/2021 - 13/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384644.49, 399161.32	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.66m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.50	SPT	N=37 (5,5,7,7,10,13)						Very stiff very high strength dark brown very sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of quartzite, sandstone and mudstone. (GLACIAL TILL)					
	12.00 - 12.45	D							*... Between 12.35 and 12.45m bgl: band of reddish orange gravelly clayey fine to coarse sand.*	13.50	(4.50)	32.16		
	13.50	SPT	N=43 (5,7,9,10,12,12)						Very stiff very high strength slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of sandstone and mudstone. (GLACIAL TILL)					
	13.50 - 13.95	D								15.00	(1.50)	30.66		
	15.00	SPT	50/150mm (7,9,13,20)						Dense reddish orange gravelly silty fine to coarse SAND. Gravel is subangular to subrounded fine and medium of sandstone. (WEATHERED CHESTER FORMATION)					
	15.00 - 15.45	D												
18.00 - 19.50				60	15	0	50		*... Between 18.50m and 18.90m bgl: assumed zone of core less in weathered sandstone as a sand.*	19.20	(4.20)	26.46		
	19.30 - 19.35	C							Extremely weak reddish orange medium and coarse SANDSTONE. Discontinuities; bedding fractures are subhorizontal 5-10°, predominantly extremely closely to very closely spaced (15,20,30,40mm) locally closely spaced (60mm) planar and undulating, rough, open and closed with local sand smearing 2-3mm and local infilling					
19.50 - 20.50	19.45 - 19.50	C					60 15							

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Hand dug inspection pit from ground level to 1.20m bgl. 2. Dynamic sampling from 1.20m to 6.00m bgl. 3. Rotary open holing with SPTs from 6.00m to 17.30m bgl. 4. Rotary coring from 17.30m to 22.50m bgl. 5. Unable to advance casing beyond 21.50m bgl due to casing becoming tight, therefore no recovery obtained between 22.00m and 22.50m bgl. 6. Installed on completion with a response zone between 13.00m and 21.00m bgl.

Groundwater: No groundwater enountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH702 Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 09/12/2021 - 13/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384644.49, 399161.32	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.66m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
20.50 - 21.50	20.35 - 20.40	C		70	40	0			Extremely weak reddish orange medium and coarse SANDSTONE. Discontinuities; bedding fractures are subhorizontal 5-10°, predominantly extremely closely to very closely spaced (15,20,30,40mm) locally closely spaced (60mm) planar and undulating, rough, open and closed with local sand smearing 2-3mm and local infilling with cemented sand up to 2mm. (CHESTER FORMATION)		(2.80)			
	20.40 - 20.46	C		60	23	0	60 16		*... At 19.45m bgl: fracture is clay smeared.* *... Between 19.50 and 19.57: assumed zone of core loss at start of rock core run.* *... Between 19.80m and 19.90m bgl: non-intact as reddish orange sandy angular to subangular medium and coarse gravel of sandstone.* *... Between 19.96 and 19.98m bgl: non-intact as reddish orange silty medium to coarse sand.* *... Between 20.17 and 20.20m bgl: non-intact as reddish orange silty medium to coarse sand.* *... Between 20.40m and 20.47m bgl: closely spaced fracture.* *... Between 20.50m and 21.40m bgl: assumed zone of core loss due to fractured sandstone bedrock.* *... Between 20.83m and 21.90m bgl: fractures are closely spaced.* *... Between 21.40m and 21.70m bgl: non-intact as reddish orange medium and coarse sand.*	21				
21.50 - 22.50	21.60	ES		0	0	0	0 0 0			22.00		23.66		
	21.83 - 21.90	C							No recovery: assumed highly fractured or extremely weak sandstone bedrock. (CHESTER FORMATION)	22	(0.50)			
	21.90 - 21.95	C							End of Borehole at 22.50m	22.50		23.16		
										23				
										24				
										25				
										26				
										27				
										28				
										29				
										30				

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Hand dug inspection pit from ground level to 1.20m bgl. 2. Dynamic sampling from 1.20m to 6.00m bgl. 3. Rotary open holing with SPTs from 6.00m to 17.30m bgl. 4. Rotary coring from 17.30m to 22.50m bgl. 5. Unable to advance casing beyond 21.50m bgl due to casing becoming tight, therefore no recovery obtained between 22.00m and 22.50m bgl. 6. Installed on completion with a response zone between 13.00m and 21.00m bgl.

Groundwater: No groundwater enountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH703 Page No. 1 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 16/11/2021 - 17/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384650.67, 399154.04	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.91m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max	Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
									Very soft dark brown sandy gravelly CLAY with occasional rootlets. Gravel is angular to subangular fine to coarse of coal and mudstone (TOPSOIL)	0.30	(0.30)	45.61		
	0.50	ES							Very soft greyish brown very sandy gravelly CLAY with low cobble content. Gravel is angular to subangular fine to coarse of brick, coal, concrete, sandstone and quartz. (MADE GROUND)	0.50	(0.20)	45.41		
									CONCRETE HARDSTANDING (RELICT SLAB/FOOTING) (CONCRETE)	0.70	(0.20)	45.21		
1.20 - 2.00 87mm 100% rec	1.20 - 1.65	D							Dark brown and black sandy clayey ashy angular to subangular fine to coarse GRAVEL of coal, brick, concrete and sandstone. (MADE GROUND)	1.60	(0.90)	44.31		
	1.40	ES							Stiff becoming very stiff high becoming very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine and medium of mudstone, sandstone and coal. (GLACIAL TILL)					
	1.80	ES												
2.00 - 3.50 87mm 100% rec	2.00	SPT	N=13 (1,2,2,3,4,4)											
	2.50 - 3.20	B							*... At 2.60m bgl: cobble of sandstone.*					
	3.50 - 3.95	D												
	3.80	HSV	88kPa											
4.00 - 5.50 87mm 100% rec	4.20	ES												
	4.40	D												
	4.80	HSV	103kPa											
	5.50	SPT	N=17 (2,3,3,4,5,5)								(9.40)			
	6.80	HSV	107kPa											
	7.00 - 7.45	UT												
7.50 - 9.00 87mm 100% rec									*... Between 7.50m and 10.45m bgl: becomes sandy.*					
	8.00 - 8.50	B												
	8.80	HSV	106kPa											
	9.00	SPT	N=26 (3,4,5,7,7,7)											
	9.00 - 9.45	D												

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	17/11	1530	19.00	6.00	127		Water	Reddish orange

General Remarks:
1. Hand dug inspection pit from ground level to 1.20m bgl. 2. Dynamic sampling from 1.20m bg to 9.00m bgl. 3. Rotary open holing with SPTs from 9.00m to 16.00m bgl. 4. Rotary coring from 16.00m to 19.00m bgl. 5. Terminated at 19.00m bgl due to core barrel becoming stuck within the hole following spalling of fractured sandstone bedrock. 6. When pulling threads in rods broken and rods and sampler remain in borehole between 15.00m and 19.00m bgl. 7. Installed on completion with a response zone between 3.00m and 9.00m bgl.

Groundwater: Water ingress at 1.60m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH703
Page No. 2 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 16/11/2021 - 17/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384650.67, 399154.04	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.91m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests Depth (m)	Type	Results	Mechanical Log TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	10.00	SPT	N=26 (3,4,5,7,7,7)						Stiff becoming very stiff high becoming very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine and medium of mudstone, sandstone and coal. (GLACIAL TILL)					
	10.00 - 10.45	D												
	11.00	SPT	50/105mm (25,30,20)							11.00		34.91		
	11.00 - 11.45	D							Dense dark brown sandy very silty angular to subangular fine to coarse GRAVEL of sandstone, mudstone, coal and quartzite. (GLACIAL TILL)		(1.00)			
	12.00	SPT	N=24 (3,4,5,6,6,7)							12.00		33.91		
	12.00 - 12.45	D							Very stiff high strength dark brown silty CLAY with rare lenses of reddish orange silty fine to medium sand. (GLACIAL TILL)					
	12.30	D												
	13.00	SPT	N=30 (3,4,5,7,9,9)											
	13.00 - 13.45	D												
	14.00	SPT	N=28 (3,5,5,7,8,8)								(4.00)			
	15.00	SPT	N=32 (4,5,6,8,9,9)											
16.00 - 17.50	16.00	SPT	40/180mm (4,7,15,5,20)							16.00		29.91		
	16.00 - 16.45	D		33	0	0	NI		Dense dark brown sandy clayey angular to subrounded fine to coarse GRAVEL of sandstone and quartzite. (WEATHERED CHESTER FORMATION)		(1.40)			
										17.40		28.51		
17.50 - 19.00				27	0	0	NI		Reddish orange sandy angular to subangular, fine to coarse GRAVEL of sandstone. (WEATHERED CHESTER FORMATION)	17.50	(0.10)	28.41		
									Assumed zone of core loss: highly weathered sandstone bedrock as a sand. (WEATHERED CHESTER FORMATION)		(1.10)			
										18.60		27.31		
									Reddish orange sandy angular to subangular medium to coarse GRAVEL of sandstone. (WEATHERED CHESTER FORMATION)	19.00	(0.40)	26.91		
									End of Borehole at 19.00m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Hand dug inspection pit from ground level to 1.20m bgl. 2. Dynamic sampling from 1.20m bg to 9.00m bgl. 3. Rotary open holing with SPTs from 9.00m to 16.00m bgl. 4. Rotary coring from 16.00m to 19.00m bgl. 5. Terminated at 19.00m bgl due to core barrel becoming stuck within the hole following spalling of fractured sandstone bedrock. 6. When pulling threads in rods broken and rods and sampler remain in borehole between 15.00m and 19.00m bgl. 7. Installed on completion with a response zone between 3.00m and 9.00m bgl.

Groundwater: Water ingress at 1.60m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH704
Page No. 1 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 17/11/2021 - 06/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384669.72, 399163.34	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.96m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
									Strong largely REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels (CONCRETE)	0.18	(0.18)	45.78		
	0.50 0.50	ES PID	0.1ppm						Dark brown sandy silty angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)	0.75	(0.57)	45.21		
									CONCRETE HARDSTANDING (RELICT FOOTING/SLAB) (CONCRETE)	1.10	(0.35)	44.86		
1.20 - 2.00 87mm 100% rec	1.20 1.20 1.20 - 1.65 1.50 - 2.00	SPT ES D B	N=14 (1,1,3,3,4,4)						Stiff high strength dark brown mottled grey slightly sandy slightly gravelly CLAY with low cobble content. Gravel is subangular fine to medium of coal and sandstone. Cobbles are subangular of sandstone. (GLACIAL TILL)					
2.00 - 3.00 87mm 100% rec	1.80 2.00 2.00 - 2.45 2.80	HSV SPT D HSV	94kPa N=12 (1,1,2,3,3,4) 88kPa							2	(1.90)			
3.00 - 4.00 87mm 100% rec	3.00 - 3.45 3.45 - 4.45	UT B								3.00		42.96		
									Stiff high strength dark brown sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of coal, mudstone and sandstone. (GLACIAL TILL)					
4.00 - 5.00 87mm 100% rec	4.10 4.40 - 4.85	SPT D	N=19 (1,3,3,5,5,6)							4				
	4.80	HSV	89kPa							5				
5.00 - 6.00 87mm 100% rec	5.50 - 6.00	B												
6.00 - 7.00 87mm 100% rec	6.20	ES								6				
	6.80	HSV	88kPa								(7.55)			
7.00 - 8.00 87mm 100% rec	7.10 7.10 - 7.55 7.20 7.80	SPT D D HSV	N=24 (3,3,4,5,7,8) 99kPa						*... Between 7.00m and 8.00m bgl: locally firm.*	7				
8.00 - 9.00 87mm 100% rec	8.10 8.10 - 8.55 8.50 - 9.00 8.80	SPT D B HSV	N=28 (2,4,4,7,8,9) 92kPa							8				
9.00 - 10.00 87mm 100% rec	9.10 9.10 - 9.55	SPT D	N=32 (2,3,4,8,10,10)							9				
									Continued on Next Sheet	10				

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	06/11	1530	17.50	17.00	127		Water	Dark brown

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.18m bgl. 2. Hand dug inspection pit from 0.18m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 10.00m bgl. 4. Rotary open holing from 10.00m to 17.50m bgl. 5. Hole terminated at 17.50m bgl due to casing advancement stopping on top of dense gravels. 6. Installed on completion with a response zone between 12.00m and 17.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH704
Page No. 2 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 17/11/2021 - 06/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384669.72, 399163.34	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.96m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.10	SPT	N=47 (2,5,6,7,16,18)						Stiff high strength dark brown sandy gravelly CLAY. Gravel is subangular to rounded fine to coarse of coal, mudstone and sandstone. (GLACIAL TILL)					
	10.10 - 10.55	D							*... Between 10.10m and 10.55m bgl: locally firm.*	10.55		35.41		
									Very stiff very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to rounded fine to coarse of sandstone, mudstone, coal and quartzite. (GLACIAL TILL)					
	13.10	SPT	N=45 (3,6,7,10,11,17)								(5.55)			
	13.10 - 13.55	D												
	16.10	SPT	50/190mm (17,7,16,19,15)							16.10		29.86		
	16.10 - 16.44	D							Dense reddish orange slightly silty fine to coarse SAND. (WEATHERED CHESTER FORMATION)	16.55	(0.45)	29.41		
									Dark brown sandy very clayey subangular to subrounded medium and coarse GRAVEL of sandstone and quartzite. (WEATHERED CHESTER FORMATION)		(0.95)			
										17.50		28.46		
									End of Borehole at 17.50m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.18m bgl. 2. Hand dug inspection pit from 0.18m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 10.00m bgl. 4. Rotary open holing from 10.00m to 17.50m bgl. 5. Hole terminated at 17.50m bgl due to casing advancement stopping on top of dense gravels. 6. Installed on completion with a response zone between 12.00m and 17.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH705
Page No. 1 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 02/12/2021 - 10/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384652.91, 399198.13	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.77m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	0.20 - 0.50	B							Strong light grey REINFORCED CONCRETE. 60% aggregate of angular to subrounded fine to coarse limestone and quartzite gravels. 5% small voids, 3mm in diameter and penetrating 2mm. (CONCRETE)	0.12	(0.12)	45.65		
	0.60	ES							*... At 0.06m bgl: rebar is 7mm in diameter.*					
									Dark brown very sandy silty angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)		(1.23)			
	1.20	SPT	50/225mm (4,4,4,3,4)						*... At 0.12m bgl: rebar is 7mm in diameter and waterproof membrane is present.*	1.35		44.42		
									CONCRETE HARDSTANDING (CONCRETE)		(0.65)			
2.00 - 3.00 87mm 70% rec	2.20	D								2.00		43.77		
	2.50	ES							Stiff high strength dark brown mottled grey sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of sandstone, mudstone and siltstone. (GLACIAL TILL)		(1.00)			
	2.90	HSV	78kPa											
3.00 - 4.00 87mm 100% rec	3.00	SPT	N=17 (1,1,3,4,5,5)							3.00		42.77		
	3.00 - 3.45	D							Very stiff very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of sandstone, mudstone and siltstone. (GLACIAL TILL)					
	3.00 - 4.00	B												
	3.90	HSV	91kPa											
4.00 - 5.00 87mm 100% rec	4.00	SPT	N=19 (2,3,4,5,5,5)											
	4.00 - 4.45	D												
	4.00	HSV	97kPa											
	4.50	ES												
	5.00	SPT	N=38 (2,3,5,10,11,12)											
	5.00 - 5.45	D									(5.00)			
	7.00	SPT	N=33 (3,5,5,7,9,12)											
	7.00 - 7.45	D							*... Between 7.20m and 7.25m bgl: band of dark brown very sandy clay.*					
	8.00 - 8.45	D								8.00		37.77		
	8.50	SPT	N=33 (3,5,5,8,8,12)						Very stiff very high strength dark brown sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of sandstone and mudstone. (GLACIAL TILL) *... Between 8.00m and 8.10m bgl: band of dark brown very clayey fine and medium sand.*					

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	10/12	1530	23.50	22.00	127		Water/Air	Reddish orange

General Remarks:
1. Concrete hardstanding broken out from ground level to 0.12m bgl. 2. Dynamic windowless sampling from 0.12m to 1.40m bgl. 3. Dynamic sampling (rotary) from 1.40m bgl to 5.00m bgl. 4. Rotary open holing with SPTs from 5.00m to 16.00m bgl. 5. Rotary coring from 16.00m to 23.50m bgl. 6. Complete at 23.50m bgl. 7. Installed with a response zone between 7.00m and 13.00m bgl.

Groundwater: Water ingress at 2.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH705 Page No. 2 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 02/12/2021 - 10/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384652.91, 399198.13	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.77m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.00	SPT	N=37 (4,6,7,8,10,12)						Very stiff very high strength dark brown sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine and medium of sandstone and mudstone. (GLACIAL TILL)					
	10.00 - 10.45	D							*... Between 10.00m and 10.10m bgl: band of dark brown very clayey fine and medium sand.*		(5.30)			
									... From 11.00m bgl: clay becomes slightly sandy.	11				
									... Between 11.20m and 11.30m bgl: band of dark brown very clayey fine and medium sand.					
	11.50	SPT	N=39 (0,1,8,8,10,13)							12				
	11.50 - 11.95	D												
	13.00	SPT	N=42 (5,7,8,10,11,13)							13				
	13.00 - 13.45	D												
										13.30		32.47		
									Dense reddish orange gravelly to very gravelly silty fine to coarse SAND. Gravel is subangular to subrounded medium and coarse of sandstone and quartzite. (WEATHERED CHESTER FORMATION)					
										14				
										15				
	16.00	SPT	50/0mm ()							16				
	16.00	D									(5.64)			
										17				
17.50 - 19.00							60							
				67	4	0				18				
										18.94		26.83		
19.00 - 20.50	19.00 - 19.11	C					260		Medium strong reddish orange medium and coarse SADNSTONE. Discontinuities; bedding fractures are horizontal to subhorizontal 0-10°, closely to medium spaced (100,110,140,200mm), planar and undulating, smooth and rough, open and locally closed, with local sand smearing 1-2mm and no notable losses of strength adjacent to fractures. (CHESTER FORMATION)	19				
	19.11 - 19.27	C					125							
	19.40 - 19.59	C		100	84	64								
	19.80	ES												
										20				

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out from ground level to 0.12m bgl. 2. Dynamic windowless sampling from 0.12m to 1.40m bgl. 3. Dynamic sampling (rotary) from 1.40m bgl to 5.00m bgl. 4. Rotary open holing with SPTs from 5.00m to 16.00m bgl. 5. Rotary coring from 16.00m to 23.50m bgl. 6. Complete at 23.50m bgl. 7. Installed with a response zone between 7.00m and 13.00m bgl.

Groundwater: Water ingress at 2.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH705 Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 02/12/2021 - 10/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384652.91, 399198.13	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.77m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	19.80 - 20.10	C							Medium strong reddish orange medium and coarse SADNSTONE. Discontinuities; bedding fractures are horizontal to subhorizontal 0-10°, closely to medium spaced (100,110,140,200mm), planar and undulating, smooth and rough, open and locally closed, with local sand smearing 1-2mm and no notable losses of strength adjacent to fractures. (CHESTER FORMATION)					
20.50 - 22.00	20.70 - 20.80	C					140 80 50							
	21.12 - 21.26	C		95	95	63					(4.56)			
	21.30 - 21.40	C							*... Between 21.20 and 21.24m bgl: two very closely spaced fractures.*					
	21.60 - 21.70	C												
22.00 - 23.50	21.88 - 22.20	C												
	22.33 - 22.46	C							*... Between 22.20m and 22.30m bgl: five very closely spaced fractures.*					
	22.68 - 22.80	C		93	93	40								
	22.95 - 23.20	C					250 100 10		*... Between 23.20m and 23.25m bgl: three very closely spaced fractures.* *... At 23.23m bgl: one fracture infilled with cemented sand.*	23.50		22.27		
									End of Borehole at 23.50m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out from ground level to 0.12m bgl. 2. Dynamic windowless sampling from 0.12m to 1.40m bgl. 3. Dynamic sampling (rotary) from 1.40m bgl to 5.00m bgl. 4. Rotary open holing with SPTs from 5.00m to 16.00m bgl. 5. Rotary coring from 16.00m to 23.50m bgl. 6. Complete at 23.50m bgl. 7. Installed with a response zone between 7.00m and 13.00m bgl.

Groundwater: Water ingress at 2.00m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH706
Page No. 1 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 24/11/2021 - 26/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384667.34, 399220.28	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.68m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	0.10 - 0.50	B							Strong light grey REINFORCED CONCRETE (CONCRETE)	0.15	(0.15)	45.53		
	0.50	ES							Medium dense orangish brown sandy slightly silty angular to subangular fine to coarse GRAVEL of sandstone and coal. (MADE GROUND)					
1.20 - 2.00 87mm 100% rec	1.20	SPT	N=18 (4,4,5,5,4,4)						*... Between 1.20m and 1.50m bgl: band of stiff brown slightly sandy gravelly clay.*		(1.85)			
	1.20 - 1.65	D												
	1.35	D												
	1.50 - 2.50	B												
2.00 - 3.00 87mm 80% rec	2.00	SPT	N=8 (1,1,2,2,2,2)						Loose dark brown sandy very clayey angular to subangular fine to coarse GRAVEL of coal sandstone and mudstone. (MADE GROUND)	2.00		43.68		
	2.00 - 2.45	D									(1.00)			
3.00 - 4.00 87mm 100% rec	3.00	SPT	50/0mm (25)						CONCRETE HARDSTANDING (CONCRETE)	3.00		42.68		
	3.00 - 3.45	B									(1.00)			
4.00 - 5.00 87mm 100% rec									Very stiff very high strength dark brown slightly sandy gravelly CLAY. Gravel is angular to subrounded fine and medium of coal, sandstone and mudstone. (GLACIAL TILL)	4.00		41.68		
	4.60	HSV	111kPa											
	4.90	HSV	147kPa											
5.00 - 6.00 87mm 100% rec	5.00	SPT	N=34 (7,5,7,7,10,10)											
	5.00 - 5.45	D												
	6.50	SPT	N=20 (3,4,5,5,5,5)											
	6.50 - 6.95	D												
	8.00	SPT	N=25 (3,5,4,7,7,7)											
	8.00 - 8.45	D												
	9.00	SPT	N=31 (3,4,6,7,9,9)								(10.00)			
	9.00 - 9.45	D												

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	26/11	1530	21.50	19.00	127	17.00	Water	Reddish orange

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.15m bgl 2. Hand dug inspection pit from 0.15m to 1.20m bgl. 3. Dynamic sampling from 1.20m bgl to 6.00m bgl. 4. Rotary open holing with SPTs from 6.00m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.50m bgl. 6. Complete at 21.50m bgl. 7. Installed on completion with a response zone between 15m and 21.00m bgl.

Groundwater: Water ingress at 17.00m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH706
Page No. 2 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 24/11/2021 - 26/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384667.34, 399220.28	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.68m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests Depth (m)	Type	Results	Mechanical Log TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	10.00 - 10.45	D							Very stiff very high strength dark brown slightly sandy gravelly CLAY. Gravel is angular to subrounded fine and medium of coal, sandstone and mudstone. (GLACIAL TILL)					
	10.50	SPT	N=33 (4,5,7,7,9,10)											
	12.00	SPT	50/105mm (7,18,25,25)											
	12.00 - 12.45	D												
	13.50	SPT	50/115mm (7,10,20,30)											
	13.50 - 13.95	D												
										14.00		31.68		
									Reddish orange sandy angular to subangular fine to coarse GRAVEL of sandstone. (WEATHERED CHESTER FORMATION)		(2.00)			
16.00 - 17.50							55			16.00		29.68		
									Assumed zone of core loss: highly weathered sandstone bedrock as a sand. (WEATHERED CHESTER FORMATION)	16.30	(0.30)	29.38		
									Very soft dark brown slightly gravelly very sandy CLAY. Gravel is subangular, fine and medium of sandstone. (WEATHERED CHESTER FORMATION)	16.70	(0.40)	28.98		
	16.80	ES		87	47	22			*... Between 16.6m and 16.7m bgl: non-intact as reddish orange angular to subangular medium and coarse gravel.*					
	17.00	ES							*... Between 16.67m and 16.87m bgl: non-intact as reddish orange angular to subangular medium and coarse gravel.*					
	17.10 - 17.20	C					140 70							
	17.20 - 17.85	C												
17.50 - 19.00									Weak to medium strong reddish orange medium to coarse SANDSTONE. Discontinuities, bedding fractures are horizontal to subhorizontal 0-5°, closely to medium spaced (80,90,140,240,280mm) planar, smooth and rough with local sand smearing up to 3mm, local specks of manganese oxidation on rock surface with very minor loss of strength adjacent to fractures 1-2mm. (CHESTER FORMATION)					
	18.20 - 18.45	C		100	70	28	240 120		*... Between 16.90m and 16.93m bgl: non-intact as reddish orange angular to subangular medium and coarse gravel.*					
	18.68 - 18.86	C							*... Between 17.57m and 17.70m bgl: non-intact as reddish orange angular to subangular medium and coarse gravel.*		(4.80)			
19.00 - 20.00									*... Between 17.8m and 18.1m bgl: subhorizontal 5-10° extremely close to very closely spaced (10, 25, 45mm) sand infilled fractures.*					
	19.30 - 19.43	C		70	43	25			*... Between 18.81m and 18.93m bgl: non-intact as reddish orange angular to subangular medium and*					
									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.15m bgl 2. Hand dug inspection pit from 0.15m to 1.20m bgl. 3. Dynamic sampling from 1.20m bgl to 6.00m bgl. 4. Rotary open holing with SPTs from 6.00m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.50m bgl. 6. Complete at 21.50m bgl. 7. Installed on completion with a response zone between 15m and 21.00m bgl.

Groundwater: Water ingress at 17.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH706 Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 24/11/2021 - 26/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384667.34, 399220.28	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.68m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
20.00 - 21.50	20.15 - 20.45	C							Weak to medium strong reddish orange medium to coarse SANDSTONE. Discontinuities, bedding fractures are horizontal to subhorizontal 0-5°, closely to medium spaced (80,90,140,240,280mm) planar, smooth and rough with local sand smearing up to 3mm, local specks of manganese oxidation on rock surface with very minor loss of strength adjacent to fractures 1-2mm. (CHESTER FORMATION)					
	20.45 - 20.60	C		90	69	65			*... Between 18.81m and 18.93m bgl: non-intact as reddish orange angular to subangular medium and coarse gravel.*					
	21.00 - 21.21	C							*... Between 19.00m and 19.30m bgl: assumed zone of core loss: due to drilling process.*	21.50		24.18		
									... Between 19.80m and 19.90m bgl: non-intact as reddish orange angular to subangular medium and coarse gravel of sandstone.					
									... Between 20.00m and 20.15m bgl: assumed zone of core loss: due to drilling process.					
									... At 20.15m bgl: becomes medium strong.					
									... Between 20.90m and 21.20m bgl: non intact as reddish orange angular to subangular medium and coarse gravel of sandstone.					
									End of Borehole at 21.50m					

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22
23
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Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.15m bgl 2. Hand dug inspection pit from 0.15m to 1.20m bgl. 3. Dynamic sampling from 1.20m bgl to 6.00m bgl. 4. Rotary open holing with SPTs from 6.00m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.50m bgl. 6. Complete at 21.50m bgl. 7. Installed on completion with a response zone between 15m and 21.00m bgl.

Groundwater: Water ingress at 17.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH707 Page No. 1 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 29/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384681.92, 399198.54	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.80m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	0.10 - 0.50	B							Strong light grey REINFORCED CONCRETE (CONCRETE)	0.20	(0.20)	45.60		
	0.50	ES							Light brown sandy slightly clayey angular to subangular fine to coarse GRAVEL of sandstone and mudstone. (MADE GROUND)					
1.20 - 2.00 87mm 90% rec	1.20	SPT	N=20 (3,4,4,5,5,6)								(2.00)			
	1.20 - 1.65	D												
	1.60 - 2.00	B												
	2.00	SPT	N=27 (3,4,7,9,5,6)							2.20		43.60		
	2.00 - 2.45	D							CONCRETE HARDSTANDING (CONCRETE)					
	2.30	ES												
	3.00	SPT	50/0mm (25)								(2.50)			
	3.00 - 3.45	D												
4.00 - 5.50 87mm 73% rec										4.70		41.10		
	5.00	SPT	N=19 (4,5,5,4,5,5)						Very stiff very high strength dark brown sandy slightly gravelly CLAY with low cobble content. Gravel is subangular to subrounded fine and medium of sandstone, coal, mudstone and siltstone. Cobbles are subangular of sandstone. (GLACIAL TILL)					
	5.00 - 5.45	D												
5.50 - 7.00 87mm 100% rec	5.75	HSV	88kPa											
	6.00	SPT	N=23 (3,4,5,6,6,6)											
	6.00 - 6.45	D												
	6.30 - 7.00	B							*... Between 6.50m and 7.00m bgl: locally firm.*					
	6.50	D												
	6.90	HSV	57kPa											
	7.50	SPT	N=30 (4,5,7,7,7,9)											
	7.50 - 7.98	D												
	9.00	SPT	N=33 (4,6,7,9,8,9)								(9.30)			
	9.00 - 9.45	D												
	9.50 - 10.00	B							*... Between 9.50m and 10.00m bgl: band of orangish brown silty fine to coarse sand.*					

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	30/11	1530	17.00	16.00	127	16.20	Water	Reddish orange

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 7.50m bgl. 4. Rotary open holing from 7.50m to 16.00m bgl. 5. Rotary coring from 16.00m to 17.00m bgl. 6. Complete at 17.00m bgl. 7. Installed on completion with response zone between 4.00m and 10.00m bgl.

Groundwater: Water ingress at 16.20m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH707 Page No. 2 of 2	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 29/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384681.92, 399198.54	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.80m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.00	SPT	N=39 (4,6,8,9,10,12)						Very stiff very high strength dark brown sandy slightly gravelly CLAY with low cobble content. Gravel is subangular to subrounded fine and medium of sandstone, coal, mudstone and siltstone. Cobbles are subangular of sandstone. (GLACIAL TILL)					
	10.00 - 10.45	D												
	11.00	SPT	N=35 (3,5,6,9,10,10)											
	11.00 - 11.45	D												
	12.00	SPT	50/230mm (5,4,6,12,30,2)											
	12.00 - 12.45	D												
										14.00		31.80		
									Reddish orange gravelly silty fine to coarse SAND. Gravel is subrounded medium to coarse of sandstone and quartzite. (WEATHERED CHESTER FORMATION)		(2.80)			
16.00 - 17.00	16.00 - 16.75	B		100	26	4	80							
	16.75 - 17.83	C								16.80		29.00		
	16.98	ES							Weak reddish orange medium to coarse SANDSTONE. Discontinuities, fractures are horizontal to subhorizontal 5-10°, extremely closely to very closely spaced (20,50,800mm) planar and rough, rough, open and closed with local cemented sand infilled fractures up to 2mm. (CHESTER FORMATION)	17.00	(0.25)	28.80		
									End of Borehole at 17.00m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 7.50m bgl. 4. Rotary open holing from 7.50m to 16.00m bgl. 5. Rotary coring from 16.00m to 17.00m bgl. 6. Complete at 17.00m bgl. 7. Installed on completion with response zone between 4.00m and 10.00m bgl.

Groundwater: Water ingress at 16.20m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH708
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Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 19/11/2021	Logged By: LH	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384692.76, 399173.62	Checked By: DL	Flush:
Hydrock Project No: 21353	Ground Level: 45.77m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests Depth (m)	Type	Results	Mechanical Log TCR	SCR	RQD	If: Min Mean Max	Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
									Light grey REINFORCED CONCRETE (CONCRETE)	0.20	(0.20)	45.57		
									Dark brown sandy clayey angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)		(1.00)			
	1.20	SPT	N=20 (3,4,5,5,5,5)							1.20		44.57		
1.50 - 3.00 87mm 100% rec									Medium dense light brown sandy slightly clayey angular to subangular fine to coarse GRAVEL of coal, sandstone and mudstone. (MADE GROUND)		(1.80)			
	2.00	D												
	2.50	ES												
	2.80	D												
3.00 - 4.00 87mm 100% rec	3.00	SPT	N=24 (3,4,5,6,6,7)							3.00		42.77		
	3.20	D							Light brown gravelly very clayey fine to medium SAND. Gravel is fine to medium angular to subangular of quartzite and sandstone. (MADE GROUND)	3.20	(0.20)	42.57		
	3.50 - 4.00	B							Medium dense dark brown slightly gravelly slightly clayey fine to medium SAND. Gravel is angular fine to medium of mudstone and sandstone. (MADE GROUND)	3.90	(0.70)	41.87		
	4.00	SPT	50/0mm (25)						Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to subrounded of sandstone and coal. (MADE GROUND)	4.00	(0.10)	41.77		
									End of Borehole at 4.00m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 4.00m bgl. 4. Terminated on concrete obstruction at 4.00m bgl, potential deep sewer. 5. Installed on completion with a response zone between 0.50m and 3.50m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH709 Page No. 1 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 02/12/2021 - 03/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384685.86, 399228.76	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.42m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
									Strong light grey REINFORCED CONCRETE 60% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. (CONCRETE) *... Between 0.05 and 0.10m bgl: rebar is 7mm in diameter*	0.15	(0.15)	45.27		
	0.80	ES							Light brown sandy clayey angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of sandstone. (MADE GROUND)	0.75	(0.60)	44.67		
	1.00 - 12.45	D							Dark brown sandy angular to subangular fine to coarse GRAVEL of coal, brick, sandstone and concrete with rare fragments of metal. Low cobble content of subangular concrete. (MADE GROUND)	1.00	(0.25)	44.42		
1.20 - 2.00 87mm 100% rec	1.20	SPT	N=5 (1,1,2,1,1,1)						Loose dark brown and yellowish brown sandy silty angular to subangular fine to coarse GRAVEL of sandstone and coal. (MADE GROUND)	2	(2.80)			
	1.20 - 2.50	B								3				
2.00 - 3.00 77mm 60% rec	2.00	SPT	N=3 (2,1,0,1,1,1)											
3.00 - 4.00 77mm 60% rec	3.00	SPT	N=4 (2,1,1,1,1,1)											
	3.90	ES								3.80		41.62		
4.00 - 5.00 67mm 100% rec	4.00	SPT	N=21 (4,3,4,5,6,6)						Light grey angular to subangular fine to coarse GRAVEL of sandstone with a weak diesel odour and visual sheen. (MADE GROUND)	4	(0.40)			
	4.80	ES							Very stiff very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded, fine and medium of sandstone, mudstone and siltstone. (GLACIAL TILL)	4.20		41.22		
	4.90	D												
	5.00 - 5.45	U	(7,95%)							5				
	5.50	D												
	6.00	SPT	N=22 (3,4,4,5,6,7)							6				
	6.00 - 6.45	B												
	6.00 - 6.45	D												
	6.20	ES												
	7.00	B								7				
	7.50 - 7.95	U	(12,100%)											
	8.00	D								8				
	9.00	SPT	N=21 (3,3,4,5,5,7)								(8.70)			
	9.00 - 9.45	B								9				
	9.00 - 9.45	D												
	9.50	D												
										10				

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Dando Comacchio	02/12	1530	13.95	13.50	152		Water/Air	Dark brown
	03/12	1530	20.00	18.50	127			Reddish orange

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.15m bgl. 2. Hand dug inspection pit from 0.15m to 1.20m bgl. 3. Dynamic windowless sample drilling from 1.20m to 5.00m bgl. 4. Cable percussive drilling from 5.00m to 13.95m bgl. 5. Rotary open holing from 13.95m to 15.50m bgl. 6. Rotary coring from 15.50m to 20.00m bgl. 7. Unable to advance casing beyond 18.50m bgl resulting in no recovery between 18.50m and 20.00m bgl. 8. Installed on completion with a response zone between 5.00m and 12.00m bgl.

Groundwater: Water ingress at 3.80m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH709 Page No. 2 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 02/12/2021 - 03/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384685.86, 399228.76	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.42m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.30 - 10.95	U	(30,95%)						Very stiff very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded, fine and medium of sandstone, mudstone and siltstone. (GLACIAL TILL)					
	11.00	D												
	12.00	SPT	50/235mm (4,6,12,15,16,7)											
	12.00 - 12.45	B												
	12.90	D								12.90		32.52		
	13.50	SPT	50/190mm (8,10,17,20,13)						Dense reddish orange gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of mudstone, sandstone and quartzite. (WEATHERED CHESTER FORMATION)		(3.20)			
	13.50 - 13.95	D												
15.50 - 17.00							NI		*... Between 15.50m and 15.75m bgl: non-intact as clayey subangular to subrounded fine to coarse gravel of mudstone, sandstone, quartz and quartzite.*					
	16.00	ES								16.10		29.32		
	16.28 - 16.38	C		100	47	22	120 50		Weak reddish orange medium to coarse SANDSTONE. Discontinuities; Bedding fractures are 5-15°, very closely to closely spaced (20, 40, 80 100, 120), planar, rough and smooth, open and close with local infilling with cemented sand 1-2mm cemented sand and local sand smearing 3-5mm with loss of strength adjacent to fractures between 2-4mm. (CHESTER FORMATION) *... Between 16.20m and 16.26m bgl: five extremely closely spaced drilling induced fractures. ... Between 16.23 and 16.83m bgl: cemented sand infilled persistent joint with local non-intact zones. ... Between 17.00m and 17.45m bgl: assumed zone of core loss due fractured sandstone. ... Between 17.75m and 17.79m bgl: three extremely closely spaced drilling induced fractures. ... Between 17.90m and 18.84m bgl: non-intact as reddish orange silty medium to coarse sand.*					
	16.38 - 16.50	C												
	16.50	ES												
17.00 - 18.50	16.74 - 16.83	C									(2.40)			
	17.45 - 17.53	C												
	17.80 - 17.88	C		70	53	21								
	18.03 - 18.10	C												
	18.40 - 18.50	C								18.50		26.92		
18.50 - 20.00				0	0	0			No recovery: assumed highly fractured or extremely weak sandstone bedrock. (CHESTER FORMATION)		(1.50)			
									End of Borehole at 20.00m	20.00		25.42		

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.15m bgl. 2. Hand dug inspection pit from 0.15m to 1.20m bgl. 3. Dynamic windowless sample drilling from 1.20m to 5.00m bgl. 4. Cable percussive drilling from 5.00m to 13.95m bgl. 5. Rotary open holing from 13.95m to 15.50m bgl. 6. Rotary coring from 15.50m to 20.00m bgl. 7. Unable to advance casing beyond 18.50m bgl resulting in no recovery between 18.50m and 20.00m bgl. 8. Installed on completion with a response zone between 5.00m and 12.00m bgl.

Groundwater: Water ingress at 3.80m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH710 Page No. 1 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 22/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384703.83, 399211.55	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.85m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests Depth (m)	Type	Results	Mechanical Log TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	0.00 - 1.10	B							Strong light grey REINFORCED CONCRETE. (CONCRETE)	0.20	(0.20)	45.65		
	0.50	ES							Very loose dark brown sandy clayey to very clayey angular to subangular fine to coarse GRAVEL of concrete, coal and sandstone. Low cobble content of subangular sandstone.(MADE GROUND)					
1.20 - 2.00 87mm 100% rec	1.20	SPT	N=0 (1,0,0,0,0,0)								(1.90)			
	1.20 - 1.65	D												
	1.50 - 1.60	ES												
	1.90	D								2.00		43.85		
									CONCRETE HARDSTANDING (RELICT FOOTING) (CONCRETE)		(2.00)			
	4.00	SPT	N=23 (3,3,4,5,7,7)							4.00		41.85		
	4.00	D							Very stiff very high strength dark red slightly gravelly CLAY. Gravel is subangular fine of sandstone and mudstone. (GLACIAL TILL)		(1.00)			
5.00 - 6.50 87mm 100% rec	5.00	SPT	N=29 (4,5,6,7,8,8)							5.00		40.85		
	5.00 - 5.45	D							Very stiff high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to sub-rounded fine to medium of coal, sandstone, mudstone and quartzite. (GLACIAL TILL)					
	6.50	SPT	N=35 (5,6,7,8,10,10)											
	6.50 - 6.95	D												
	8.00	SPT	N=35 (3,4,7,9,9,10)											
	9.00	SPT	N=43 (3,5,8,9,10,16)								(8.00)			
	9.00 - 9.45	D												

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	24/11	1530	19.50	16.50	127		Water	Reddish orange

General Remarks:
1. Concrete hardstanding broken out between 0.00m and 0.10m bgl. 2. Hand dug inspection pit from 0.10m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 2.00m bgl. 4. Rotary open holing with SPTs from 2.00m to 16.50m bgl. 5. Rotary coring from 16.50m to 19.50m bgl. 6. Complete at 19.50m bgl. 7. Installed on completion with a response zone between 10.00m and 16.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH710 Page No. 2 of 2

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 22/11/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384703.83, 399211.55	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.85m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.00	SPT	N=41 (4,6,7,9,13,12)						Very stiff high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to sub-rounded fine to medium of coal, sandstone, mudstone and quartzite. (GLACIAL TILL)					
	10.00 - 10.45	D												
	11.30 - 11.45	D												
	11.50	SPT	N=38 (4,5,7,9,10,12)											
	12.00 - 12.45	D												
	13.00	SPT	50/105mm (5,20,30,20)							13.00		32.85		
	13.00 - 13.45	D							Dense dark brown sandy silty subangular to subrounded fine to medium GRAVEL of sandstone, quartzite and mudstone. (GLACIAL TILL)	13.50	(0.50)	32.35		
									Reddish orange gravelly slightly silty fine to medium SAND. Gravel is subangular fine to medium of sandstone and quartzite. (WEATHERED CHESTER FORMATION)		(3.00)			
16.50 - 18.00				12	12	7	100		Assumed zone of core loss: highly weathered sandstone bedrock as a sand. (WEATHERED CHESTER FORMATION)	16.50	(1.30)	29.35		
18.00 - 19.50				0	0	0	0 0 0		Weak to medium strong reddish orange medium grained SANDSTONE. (CHESTER FORMATION) *... At 17.93m bgl: one horizontal 5° planar and rough fracture with sand smearing up to 1-2mm.* No recovery: assumed highly fractured or extremely weak sandstone bedrock. (CHESTER FORMATION)	17.80	(1.70)	28.05		
									End of Borehole at 19.50m	19.50		26.35		

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between 0.00m and 0.10m bgl. 2. Hand dug inspection pit from 0.10m to 1.20m bgl. 3. Dynamic sampling from 1.20m to 2.00m bgl. 4. Rotary open holing with SPTs from 2.00m to 16.50m bgl. 5. Rotary coring from 16.50m to 19.50m bgl. 6. Complete at 19.50m bgl. 7. Installed on completion with a response zone between 10.00m and 16.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH711 Page No. 1 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 01/12/2021 - 03/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384707.17, 399189.48	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 46.03m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
									Strong light grey REINFORCED CONCRETE (CONCRETE)	0.20	(0.20)	45.83		
	0.50	ES							Dark grey and dark brown sandy silty angular to subangular fine to coarse GRAVEL of sandstone and quartzite. (MADE GROUND)		(0.80)			
										1.00		45.03		
	2.00	ES							Black sandy ashy angular to subangular fine to coarse GRAVEL of brick, sandstone, quartzite, coal and carbonaceous mudstone. (MADE GROUND) *... At 1.00m bgl: perched water is black in hue no notable sheen.* *... Between 1.00m and 4.50m bgl: weak diesel odour.*		(3.50)			
3.00 - 4.50 87mm 100% rec														
	3.70	ES												
	4.00	SPT	N=4 (1,1,1,1,1,1)						*... Between 4.00m and 4.45m bgl: gravel is loose.*					
	4.00	ES												
	4.00 - 4.45	D								4.50		41.53		
4.50 - 6.00 87mm 73% rec	4.50 - 6.00	B							Very stiff high very strength dark brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine and medium of sandstone, mudstone, siltstone and coal. (GLACIAL TILL) *... At 4.50m bgl: contamination sat on top of clay, no vertical migration.*					
	4.80	ES												
	5.00	D												
	5.30	HSV	105kPa						*... At 5.80m bgl: lenses of light brown silty fine sand.*					
	5.80	HSV	105kPa											
6.00 - 7.50 87mm 80% rec	6.00	SPT	N=23 (4,5,5,6,6,6)											
	6.00 - 6.45	D												
	6.80	D												
	6.80	HSV	111kPa											
	6.90	ES												
	7.00	SPT	N=18 (3,3,4,4,5,5)											
	7.00 - 7.45	D												
	8.00	SPT	N=23 (3,4,6,6,5,6)											
	8.00 - 8.45	D												
	9.00 - 9.45	D												
	9.37 - 19.44	C									(10.00)			

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Comacchio	03/12	1530	21.00	19.50	127		Water/Air	Reddish orange

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Rotary open holing from 1.20m to 3.00m bgl. 4. Dynamic sampling from 3.00m to 7.00m bgl. 5. Rotary open holing with SPTs from 7.00m to 17.00m bgl. 6. Rotary coring from 17.00m to 21.00m bgl. 7. Unable to advance casing past 19.50m bgl resulting in no recovery between 19.50m and 21.00m bgl. 8. Installed on completion with a response zone between 13.00m and 19.00m bgl.

Groundwater: Water ingress at 1.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH711 Page No. 2 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 01/12/2021 - 03/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384707.17, 399189.48	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 46.03m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.00 - 10.45	D							Very stiff high very strength dark brown slightly sandy gravelly CLAY. Gravel is subangular to rounded fine and medium of sandstone, mudstone, siltstone and coal. (GLACIAL TILL) *... Between 10.00m and 10.45m bgl: becomes sandy.*					
	11.50	SPT	N=40 (4,5,7,9,12,12)											
	13.00	SPT	N=48 (4,5,6,13,13,16)											
	13.00 - 13.45	D												
	14.50	SPT	50/135mm (5,7,25,25)							14.50		31.53		
	14.50 - 14.95	D							Dense reddish orange very gravelly silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of sandstone, quartzite, mudstone and quartz. (WEATHERED CHESTER FORMATION)		(2.80)			
17.00 - 18.00							NI			17.30		28.73		
	17.30 - 17.47	C		100	56	17	160 70 20		Medium strong to strong reddish orange medium to coarse SANDSTONE. Discontinuities, set 1: bedding fractures are horizontal and subhorizontal 5-10°, closely spaced (60, 120, 180) planar, rough and smooth, open and close with local infilling with cemented sand 1-2mm. Set 2: Fractures are horizontal 5°, extremely closely spaced (10, 15mm) planar, rough, open and close with local infilling with cemented sand 1-2mm. (CHESTER FORMATION) *... Between 17.92m and 18.00m bgl: non-intact as a reddish orange medium and coarse gravel. ... Between 18.10m and 18.20m bgl: extremely closely spaced fractures and local weak strength of rock. ... Between 18.45m and 18.55m bgl: extremely closely spaced fractures and local weak strength of rock. ... At 19.25m bgl: light orange staining penetrating 20mm. ... At 19.44m bgl: one drilling induced fracture.*		(2.20)			
	17.75 - 17.87	C												
18.00 - 19.50	18.10	ES												
	18.30	ES												
	18.50 - 18.65	C		100	97	61	180 130 100							
	18.96 - 19.11	C												
	19.37 - 19.44	C								19.50		26.53		
19.50 - 21.00							0 0 0		No recovery: assumed highly fractured or extremely weak					

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Rotary open holing from 1.20m to 3.00m bgl. 4. Dynamic sampling from 3.00m to 7.00m bgl. 5. Rotary open holing with SPTs from 7.00m to 17.00m bgl. 6. Rotary coring from 17.00m to 21.00m bgl. 7. Unable to advance casing past 19.50m bgl resulting in no recovery between 19.50m and 21.00m bgl. 8. Installed on completion with a response zone between 13.00m and 19.00m bgl.

Groundwater: Water ingress at 1.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH711 Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 01/12/2021 - 03/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384707.17, 399189.48	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 46.03m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum-entation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
				0	0	0			No recovery: assumed highly fractured or extremely weak sandstone bedrock. (CHESTER FORMATION)		(1.50)			
										21.00		25.03		
									End of Borehole at 21.00m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Rotary open holing from 1.20m to 3.00m bgl. 4. Dynamic sampling from 3.00m to 7.00m bgl. 5. Rotary open holing with SPTs from 7.00m to 17.00m bgl. 6. Rotary coring from 17.00m to 21.00m bgl. 7. Unable to advance casing past 19.50m bgl resulting in no recovery between 19.50m and 21.00m bgl. 8. Installed on completion with a response zone between 13.00m and 19.00m bgl.

Groundwater: Water ingress at 1.00m bgl

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH712 Page No. 1 of 3

Method: Rotary Open to Rotary Coring	Date(s): 14/12/2021 - 15/12/2021	Logged By: JG	Drilled By: Borehole Solutions North Ltd
Client: Crowning Developments Limited	Co-ords: 384695.30, 399180.40	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.58m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
									Light grey CONCRETE HARDSTANDING (drillers log). (CONCRETE)	0.20	(0.20)	45.38		
									Gravel fill (drillers log). (MADE GROUND)					
											(3.30)			
										3.50		42.08		
									CONCRETE HARDSTANDING (drillers log). (CONCRETE)	3.70	(0.20)	41.88		
									Clay fill (drillers log). (MADE GROUND)	4.00	(0.30)	41.58		
									Brown sandy gravelly CLAY (drillers log). (GLACIAL TILL)					
									Continued on Next Sheet		(12.00)			

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Mito	15/12	1530	21.00	18.00	178		Water	Reddish orange

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m and 1.20m bgl. 3. Open hole drilling using a sonic rig from 1.20m to 18.00m bgl. 4. Rotary coring from 18.00 to 21.00m bgl. 5. Terminated due to loss of outer hollow 150mm sample wall in base of hole, which drillers were unable to recover. 5. Backfilled with bentonite from ground level to 21.00m bgl.

Groundwater: No groundwater enountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH712 Page No. 2 of 3

Method: Rotary Open to Rotary Coring	Date(s): 14/12/2021 - 15/12/2021	Logged By: JG	Drilled By: Borehole Solutions North Ltd
Client: Crowning Developments Limited	Co-ords: 384695.30, 399180.40	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.58m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum-entation / Backfill
									Brown sandy gravelly CLAY (drillers log). (GLACIAL TILL)					
									Reddish orange gravelly SAND (drillers log). (WEATHERED CHESTER FORMATION)	16.00	(0.50)	29.58		
									Reddish orange SAND (drillers log). (WEATHERED CHESTER FORMATION)	16.50	(1.50)	29.08		
18.00 - 19.50				0	0	0			No recovery: assumed highly fractured or extremely weak sandstone bedrock. (WEATHERED CHESTER FORMATION)	18.00	(3.00)	27.58		
19.50 - 21.00									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m and 1.20m bgl. 3. Open hole drilling using a sonic rig from 1.20m to 18.00m bgl. 4. Rotary coring from 18.00 to 21.00m bgl. 5. Terminated due to loss of outer hollow 150mm sample wall in base of hole, which drillers were unable to recover. 5. Backfilled with bentonite from ground level to 21.00m bgl.

Groundwater: No groundwater enountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH712
Page No. 3 of 3

Method: Rotary Open to Rotary Coring	Date(s): 14/12/2021 - 15/12/2021	Logged By: JG	Drilled By: Borehole Solutions North Ltd
Client: Crowning Developments Limited	Co-ords: 384695.30, 399180.40	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 45.58m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum-entation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
				0	0	0			No recovery: assumed highly fractured or extremely weak sandstone bedrock. (WEATHERED CHESTER FORMATION)					
									End of Borehole at 21.00m	21.00		24.58		

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m and 1.20m bgl. 3. Open hole drilling using a sonic rig from 1.20m to 18.00m bgl. 4. Rotary coring from 18.00 to 21.00m bgl. 5. Terminated due to loss of outer hollow 150mm sample wall in base of hole, which drillers were unable to recover. 5. Backfilled with bentonite from ground level to 21.00m bgl.

Groundwater: No groundwater enountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH713
Page No. 1 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 09/12/2021 - 13/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384730.73, 399204.64	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 46.07m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	0.30 - 0.50	B							Strong light grey REINFORCED CONCRETE 60% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. (CONCRETE)	0.25	(0.25)	45.82		
	0.50 - 1.20	B							*... At 0.08m bgl: rebar is 7mm in diameter.*	0.50	(0.25)	45.57		
	0.60	ES							Yellowish brown sandy clayey angular to subangular fine to coarse GRAVEL of sandstone and coal. (MADE GROUND)					
	1.20	SPT	N=21 (3,4,4,5,6,6)						Medium dense black sandy ashy angular to subangular, fine to coarse GRAVEL of coal, concrete, brick sandstone and limestone. (MADE GROUND)		(1.80)			
	1.20 - 1.65	B							*... Between 0.50m and 2.30m bgl: very weak diesel odour.*					
	1.20 - 1.65	D												
	1.50	D												
	2.00	SPT	N=14 (3,4,5,5,2,2)							2.30		43.77		
	2.00 - 2.45	D							Vey stiff high strength dark brown sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone, mudstone and quartzite. (GLACIAL TILL)					
	3.00 - 3.45	U	(75,65%)											
	4.00	SPT	N=22 (3,4,4,5,6,7)											
	4.10 - 4.45	D												
	4.80	D												
	5.00 - 5.45	U	(35,100%)											
	5.50	D												
	5.50	ES												
	6.00	SPT	N=25 (3,4,5,5,6,9)								(7.50)			
	6.00 - 6.45	B												
	6.00 - 6.45	D												
	7.00	D												
	7.50 - 7.95	U	(20,90%)											
	8.00	D												
	9.00	SPT	N=29 (3,5,6,7,7,9)											
	9.00 - 9.45	B												
	9.00 - 9.45	D												
	9.80	SPT	50/245mm (8,10,12,13,16,9)							9.80		36.27		
									Dense reddish orange gravelly slightly silty fine and					
									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Dando Comacchio	03/12	1530	9.80	9.80	152		Water/Air	Dark brown Reddish orange
	09/12	1530	21.00	21.00	127			

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.25m bgl. 2. Hand dug inspection pit from 0.25m to 1.20m bgl. 3. Cable percussive drilling from 1.20m to 9.80m bgl. 4. Rotary open holing with SPTs from 9.80m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.00m bgl. 6. Complete at 21.00m bgl. 7. Installed on completion with a response zone between 17.00m and 21.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH713 Page No. 2 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 09/12/2021 - 13/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384730.73, 399204.64	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 46.07m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.50 - 10.95	D							Dense reddish orange gravelly slightly silty fine and medium SAND. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and quartzite. (WEATHERED CHESTER FORMATION)	10.50	(0.70)	35.57		
	12.00	SPT	25/55mm (5,16,25)						Dense orangish brown gravelly silty fine to coarse SAND. Gravel is angular to subrounded fine to coarse of sandstone and quartzite. (WEATHERED CHESTER FORMATION)	11				
	12.00 - 12.25	D								12				
	13.50	SPT	50/0mm ()							13	(5.50)			
										14				
										15				
16.00 - 17.00										16		30.07		
	16.70	ES		40	0	0	NI		Assumed zone of core loss: highly weathered sandstone bedrock as a sand. (WEATHERED CHESTER FORMATION)	16.60	(0.60)	29.47		
17.00 - 18.00									Light grey, light brown angular to subangular medium to coarse GRAVEL of sandstone and quartzite. (WEATHERED CHESTER FORMATION)	17.00	(0.40)	29.07		
	17.50 - 18.00	C		100	63	34	90 50		Weak reddish orange medium to coarse SANDSTONE. Fractures are subhorizontal 5-10°, very closely spaced (40, 50, 60) undulating, rough with sand smearing 2-3mm. (CHESTER FORMATION)	17.60	(0.60)	28.47		
							280 120 50		*... At 17.25m bgl: one subhorizontal fracture infilled with cemented sand.* *... Between 17.40m and 17.55m bgl: non-intact as reddish orange gravelly fine to coarse sand.*	18				
18.00 - 19.50	18.20	ES							Weak to medium strong reddish orange medium to coarse SANDSTONE. Discontinuities; bedding fractures are horizontal 0-5°, closely to medium spaced (80, 230, 160, 70, 220), planar, rough and open with local sand smearing 1-2mm and loss of strength adjacent to fractures 1-2mm. (CHESTER FORMATION)					
	18.47 - 18.63	C												
	18.70 - 18.96	C		94	94	53				19	(2.55)			
	19.22 - 19.36	C												
19.50 - 21.00														
	19.90 - 20.10	C												

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.25m bgl. 2. Hand dug inspection pit from 0.25m to 1.20m bgl. 3. Cable percussive drilling from 1.20m to 9.80m bgl. 4. Rotary open holing with SPTs from 9.80m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.00m bgl. 6. Complete at 21.00m bgl. 7. Installed on completion with a response zone between 17.00m and 21.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH713 Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 09/12/2021 - 13/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384730.73, 399204.64	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 46.07m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	20.17 - 20.30	C		87	85	35	80 40 30		Weak to medium strong reddish orange medium to coarse SANDSTONE. Discontinuities; bedding fractures are horizontal 0-5°, closely to medium spaced (80, 230, 160, 70, 220), planar, rough and open with local sand smearing 1-2mm and loss of strength adjacent to fractures 1-2mm. (CHESTER FORMATION)	20.15	(0.85)	25.92		
	20.19 - 20.30	C												
	20.65 - 20.75	C												
	20.66 - 20.74	C							Weak reddish orange medium to coarse SANDSTONE. Discontinuities; bedding fractures are horizontal to subhorizontal 5-10°, very closely to closely spaced (30, 80, 90, 110), planar, rough and smooth, open an close with local sand smearing 2-3mm and local infilling with cemented sand 1-2mm and loss of strength adjacent to fractures 2-3mm. (CHESTER FORMATION)	21.00		25.07		
									End of Borehole at 21.00m					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.25m bgl. 2. Hand dug inspection pit from 0.25m to 1.20m bgl. 3. Cable percussive drilling from 1.20m to 9.80m bgl. 4. Rotary open holing with SPTs from 9.80m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.00m bgl. 6. Complete at 21.00m bgl. 7. Installed on completion with a response zone between 17.00m and 21.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH714
Page No. 1 of 3

Method: Rotary Open to Rotary Coring	Date(s): 15/12/2021	Logged By: RS	Drilled By: Borehole Solutions North Ltd
Client: Crowning Developments Limited	Co-ords: 384730.60, 399264.40	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 46.01m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests: Depth (m)	Type	Results	Mechanical Log: TCR	SCR	RQD	If: Min Mean Max	Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
									Black ASPHALT HARDSTANDING. (BITUMINOUS MATERIAL)	0.10	(0.10)	45.91		
									Black ashy angular to subangular fine to coarse GRAVEL of limestone. (MADE GROUND)	0.26	(0.16)	45.75		
									Yellowish brown sandy silty angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)	0.40	(0.14)	45.61		
									Black sandy ashy angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)	0.70	(0.30)	45.31		
									Dark red COBBLES of subangular brick. (MADE GROUND)	1.00	(0.30)	45.01		
	1.20	SPT	N=32 (9,10,13,7,6,6)						Dark red sandy clayey angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)	1.20	(0.20)	44.81		
	2.50	D							Very stiff very high strength greyish brown slightly sandy gravelly CLAY with low cobble content . Gravel is angular to subangular, medium to coarse of brick, coal, sandstone and mudstone. Cobbles are subangular of sandstone. (MADE GROUND)	3.00	(1.80)	43.01		
	3.00	SPT	N=25 (5,5,6,7,6,6)						Soft becoming very stiff high strength becoming very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of mudstone, sandstone and coal. (GLACIAL TILL)					
	4.00	D												
	4.30	D												
	4.50	SPT	N=12 (2,2,2,3,3,4)							6.00	(3.00)	40.01		
	5.50 - 6.60	B												
	6.00	SPT	N=18 (3,4,4,5,5,4)						Very stiff very high strength dark brown sandy CLAY. (GLACIAL TILL)					
	6.20	D												
	6.50 - 7.00	B							*... Between 6.50m and 7.00m bgl: band of orangish brown clayey fine to medium sand.*					
	7.50	SPT	N=24 (4,5,5,6,6,7)							8.50	(2.50)	37.51		
									... Between 8.40m and 8.50m bgl: band of lighter orange silty fine to coarse sand.					
									Very stiff very high strength dark brown silty CLAY. (GLACIAL TILL)					
	9.00	SPT	N=32 (6,6,7,9,8,8)											
	9.00	D									(2.00)			
									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Mito	15/12	1530	25.50	18.00	178	9.00	Water	Reddish orange

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.10m bgl. 2. Hand dug inspection pit from 0.10m to 1.20m bgl. 3. Sonic drilling from 1.20m to 19.50m bgl. 4. Rotary coring from 19.50m to 25.50m bgl. 5. Complete at 25.50m bgl. 4. Dual groundwater installation on completion with a response zone between 1.00m and 2.00m bgl and a second response zone between 3.00m and 10.00m bgl.

Groundwater: Water ingress at 9.00m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH714
Page No. 2 of 3

Method: Rotary Open to Rotary Coring	Date(s): 15/12/2021	Logged By: RS	Drilled By: Borehole Solutions North Ltd
Client: Crowning Developments Limited	Co-ords: 384730.60, 399264.40	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 46.01m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum-entation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.00 - 10.50	B							Very stiff very high strength dark brown silty CLAY. (GLACIAL TILL)	10.50		35.51		
	10.50	SPT	N=35 (5,6,7,7,9,12)						Very stiff very high strength dark brown sandy slightly gravelly CLAY. Gravel is angular to subangular medium to coarse of sandstone, mudstone and siltstone. (GLACIAL TILL)					
	10.50	D												
											(1.50)			
	11.50 - 12.00	B								12.00		34.01		
	12.00	SPT	N=39 (7,9,8,10,9,12)						Dense brown sandy clayey angular to subangular medium to coarse GRAVEL of sandstone and quartzite. (WEATHERED CHESTER FORMATION)					
									... Between 13.35m and 13.50m bgl: cobble of sandstone.		(3.00)			
	13.50	SPT	N=31 (6,6,7,8,8,8)							15.00		31.01		
	15.00	SPT	N=46 (9,11,10,9,12,15)						Dense reddish orange gravelly silty fine to coarse SAND. Gravel is subangular medium to coarse of sandstone. (WEATHERED CHESTER FORMATION)					
	15.00 - 16.50	B									(1.50)			
	16.50	SPT	N=35 (7,8,8,8,9,10)						Dense yellowish brown becoming reddish brown gravelly silty medium to coarse SAND. Gravel is subangular to subrounded medium to coarse of sandstone and quartzite. (CHESTER FORMATION)	16.50		29.51		
	18.00	SPT	N=31 (7,7,6,7,9,9)								(3.00)			
	18.00 - 19.50	B								19.50		26.51		
									No recovery: assumed highly fractured or extremely weak sandstone bedrock.					
									Continued on Next Sheet					

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.10m bgl. 2. Hand dug inspection pit from 0.10m to 1.20m bgl. 3. Sonic drilling from 1.20m to 19.50m bgl. 4. Rotary coring from 19.50m to 25.50m bgl. 5. Complete at 25.50m bgl. 4. Dual groundwater installation on completion with a response zone between 1.00m and 2.00m bgl and a second response zone between 3.00m and 10.00m bgl.

Groundwater: Water ingress at 9.00m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH714
Page No. 3 of 3

Method: Rotary Open to Rotary Coring	Date(s): 15/12/2021	Logged By: RS	Drilled By: Borehole Solutions North Ltd
Client: Crowning Developments Limited	Co-ords: 384730.60, 399264.40	Checked By: DL	Flush: Water
Hydrock Project No: 21353	Ground Level: 46.01m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum-entation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
									No recovery: assumed highly fractured or extremely weak sandstone bedrock.					
21.00 - 22.50	21.00	SPT	N=42 (8,8,12,10,10,10)	0	0	0	0 0 0			21				
22.50 - 24.00				0	0	0	0 0 0			22	(5.00)			
24.00 - 25.50	24.00	SPT	N=42 (7,9,8,10,12,12)				NI			23				
	24.50 - 25.50	B		1	0	0				24				
										24.50		21.51		
									Sandstone bedrock recovered as light orange silty fine to medium SAND. (CHESTER FORMATION)	25	(1.00)			
										25.50		20.51		
									End of Borehole at 25.50m	26				
										27				
										28				
										29				
										30				

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.10m bgl. 2. Hand dug inspection pit from 0.10m to 1.20m bgl. 3. Sonic drilling from 1.20m to 19.50m bgl. 4. Rotary coring from 19.50m to 25.50m bgl. 5. Complete at 25.50m bgl. 4. Dual groundwater installation on completion with a response zone between 1.00m and 2.00m bgl and a second response zone between 3.00m and 10.00m bgl.

Groundwater: Water ingress at 9.00m bgl

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
MPBH715
Page No. 1 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 03/12/2021 - 07/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384741.41, 399242.64	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.87m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
									Black ASPHALT HARDSTANDING (BITUMINOUS MATERIAL)	0.20	(0.20)	45.67		
	0.50	D							Loose black sandy ashy angular to subangular, fine to coarse GRAVEL of coal, brick, limestone and sandstone. Low cobble content of brick and sandstone. (MADE GROUND)					
	0.50 - 0.60	ES												
	1.20	SPT	N=8 (1,1,1,1,3,3)								(2.10)			
	1.20 - 1.65	D												
	1.20 - 1.70	B												
	2.00	SPT	N=22 (3,6,4,5,6,7)											
	2.00 - 2.45	D												
	2.00 - 2.50	B								2.30		43.57		
	2.50	ES							Very stiff very high strength dark brown sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of coal, sandstone, mudstone and siltstone. (GLACIAL TILL)					
	3.00 - 3.45	U	(35,100%)											
	3.50	D												
	4.00	SPT	N=15 (3,3,3,4,4,4)											
	4.00 - 4.45	D												
	4.00 - 4.50	B												
	5.00 - 5.45	U	(39,55%)											
	5.50	D												
	6.00	SPT	N=21 (3,3,4,4,5,8)											
	6.00 - 6.45	D												
	6.00 - 6.50	B									(9.70)			
	7.50 - 7.95	U	(45,77%)											
	8.00	D												
	9.00	SPT	N=40 (6,7,9,10,10,11)											
	9.00 - 9.45	D												
	9.00 - 9.50	B												

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)
Dando Comacchio	03/12	1530	12.45	12.00	152		Water/Air	Dark brown Reddish orange
	07/12	1530	21.00	21.00	127			

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Cable percussive drilling from 1.20m to 12.45m bgl. 4. Rotary open holing from 12.45m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.00m bgl. 6. Complete at 21.00m bgl. 7. Installed on completion with a response zone between 14.00m and 21.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH715 Page No. 2 of 3	
Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 03/12/2021 - 07/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384741.41, 399242.64	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.87m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
	10.50	SPT	N=35 (6,7,7,8,9,11)						Very stiff very high strength dark brown sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of coal, sandstone, mudstone and siltstone. (GLACIAL TILL)					
	10.50 - 10.95	D												
	10.50 - 11.00	B												
	12.00	SPT	50/40mm (25,50)							12.00		33.87		
	12.00 - 12.45	D							Dense reddish orange gravelly slightly silty fine and medium SAND. Gravel is subangular to rounded, fine and medium of sandstone, mudstone and quartzite. (WEATHERED CHESTER FORMATION)		(1.00)			
										13.00		32.87		
									Light grey and light brown sandy subrounded fine to coarse GRAVEL of mudstone, sandstone, quartz and quartzite. (WEATHERED CHESTER FORMATION)		(3.00)			
16.00 - 17.00							30 10 111			16.00		29.87		
									Very soft light grey silty CLAY (WEATHERED CHESTER FORMATION)	16.30	(0.30)	29.57		
	16.60	ES		70	40	0			Extremely weak reddish orange medium to coarse SANDSTONE. Discontinuities; fractures are subhorizontal 10-15°, extremely closely to very closely spaced (10, 15, 20, 30), planar and undulating, smooth and rough, open with local sand smearing 2-4mm. (CHESTER FORMATION)		(0.70)			
17.00 - 18.50	16.67 - 16.70	C								17.00		28.87		
	16.87 - 16.90	C					0 0 0		No recovery: assumed highly fractured or extremely weak sandstone bedrock. (CHESTER FORMATION)					
	16.96 - 17.00	C		0	0	0								
18.50 - 20.00				0	0	0					(3.00)			
										20.00		25.87		

Continued on Next Sheet

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Cable percussive drilling from 1.20m to 12.45m bgl. 4. Rotary open holing from 12.45m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.00m bgl. 6. Complete at 21.00m bgl. 7. Installed on completion with a response zone between 14.00m and 21.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Borehole No MPBH715 Page No. 3 of 3

Method: Dynamic/Rotary Open/Rotary Cored	Date(s): 03/12/2021 - 07/12/2021	Logged By: RS	Drilled By: DMW Drilling
Client: Crowning Developments Limited	Co-ords: 384741.41, 399242.64	Checked By: DL	Flush: Water/Air
Hydrock Project No: 21353	Ground Level: 45.87m OD		Scale: 1:50

Sample/Core Run (m) Smpl. Ø (mm) Smpl. rec. %	Samples / Tests			Mechanical Log				Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
	Depth (m)	Type	Results	TCR	SCR	RQD	If: Min Mean Max							
20.00 - 21.00	20.10	D		100	28	0	50		Extremely weak reddish orange medium to coarse SANDSTONE. Discontinuities; fractures are subhorizontal (5-10°), very closely spaced (40, 50) planar, rough, open with local sand smearing 2-4mm. (CHESTER FORMATION) *... Between 20.00m and 20.15m bgl: non-intact as very soft grey very sandy clay* *... Between 20.15m and 20.25m bgl: non-intact as reddish orange very gravelly medium to coarse sand.* *... Between 20.35m and 20.55m bgl: non-intact as reddish orange very gravelly medium to coarse sand.*	21.00	(1.00)	24.87		
	20.88 - 20.92	C												
	20.92 - 21.10	C												
									End of Borehole at 21.00m					

21 22 23 24 25 26 27 28 29 30

Progress and Observations

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Cable percussive drilling from 1.20m to 12.45m bgl. 4. Rotary open holing from 12.45m to 16.00m bgl. 5. Rotary coring from 16.00m to 21.00m bgl. 6. Complete at 21.00m bgl. 7. Installed on completion with a response zone between 14.00m and 21.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
WS701
Page No. 1 of 1

Method: Dynamic (Windowless) Sampler	Date(s): 22/11/2021	Logged By: RS	Drilled By: Earth Engineering
Client: Crowning Developments Limited	Co-ords: 384617.88, 399199.18	Checked By: DL	Rig: Archway Dart
Hydrock Project No: 21353	Ground Level: 44.82m OD		Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
							Black ASPHALT HARDSTANDING (BITUMINOUS MATERIAL)	0.20	(0.20)	44.62		
							Light brown sandy angular to subangular fine to coarse GRAVEL of limestone, coal and brick. (MADE GROUND)	0.40	(0.20)	44.42		
			0.50 0.55 0.70 - 1.20 0.90	ES D B ES			Soft dark brown sandy gravelly CLAY with low cobble content and small ashy pockets. Gravel is angular to subangular fine to coarse of sandstone, coal and brick with rare fragments of clay pipe. (MADE GROUND)	0.70	(0.30)	44.12		
1.20 - 2.00	87mm	100%	1.20 1.20 - 1.65	SPT D	N=15 (2,3,3,3,4,5)		Stiff becoming very stiff very high strength dark brown slightly sandy slightly gravelly CLAY with rare gleyed lenses. Gravel is subangular to subrounded fine and medium of mudstone, sandstone, coal and siltstone. (GLACIAL TILL)	1				
							... At 1.50m bgl: lenses of light orange silty clay.					
2.00 - 3.00	77mm	100%	2.00 2.00 - 2.45 2.00 - 3.00	SPT D B	N=19 (2,4,4,4,5,6)			2				
							... At 2.20m bgl: lenses of light orange silty clay.					
						▼						
3.00 - 4.00	67mm	100%	3.00 3.00 - 3.45	SPT D	N=24 (3,4,5,6,6,7)			3	(4.75)			
4.00 - 5.00	57mm	100%	4.00 4.00 - 4.45	SPT D	N=24 (4,4,5,6,6,7)			4				
			5.00	SPT	N=30 (5,5,6,6,8,10)			5				
								5.45		39.37		
							End of Borehole at 5.45m					
								6				

General Remarks:
1. Asphalt broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic windowless sample drilling from 1.20m to 5.45m bgl. 4. Complete at 5.45m bgl. 5. Installed on completion with a response zone between 1.00m and 4.00m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
WS702
Page No. 1 of 1

Method: Dynamic (Windowless) Sampler	Date(s): 22/11/2021	Logged By: RS	Drilled By: Earth Engineering
Client: Crowning Developments Limited	Co-ords: 384673.17, 399232.81	Checked By: DL	Rig: Archway Dart
Hydrock Project No: 21353	Ground Level: 45.49m OD		Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
							Strong light grey REINFORCED CONCRETE. 60% aggregate of angular to subangular fine to coarse limestone gravels. (CONCRETE)		(0.20)			
							... At 0.08m bgl: rebar present and is 7mm in diameter.					
							... At 0.13m bgl: rebar present and is 7mm in diameter.	0.20		45.29		
							Dark brown sandy angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of sandstone. (MADE GROUND)		(0.40)			
			0.60 - 1.00	B			*... At 0.20m bgl: waterproof membrane.*	0.60		44.89		
			0.70 - 0.90	ES			Black sandy slightly silty ashy fine to coarse angular to subangular GRAVEL of coal, brick, clinker, sandstone, siltstone and concrete with a weak diesel odour. (MADE GROUND)		(0.60)			
							1	1.20		44.29		
1.20 - 2.00	87mm	100%	1.20	SPT	N=22 (3,1,3,2,2,15)		Soft to firm low to medium strength reddish brown and orangish brown sandy gravelly CLAY. Gravel is angular to subangular fine to coarse of coal, brick and sandstone. (MADE GROUND)					
			1.20 - 1.65	D								
			1.20	PID	32.0ppm							
			1.30	D			*... Between 1.60m and 1.80m bgl: Band of black ashy gravel with a moderate organic (humic) odour.*					
			1.40 - 1.50	ES								
			1.80	ES								
			1.80	PID	62.0ppm							
2.00 - 3.00	77mm	100%	2.00	SPT	N=7 (1,1,2,1,2,2)		2					
			2.00 - 2.45	D					(1.90)			
			2.00 - 2.70	B								
			2.30	D								
							... Between 2.80m and 3.10m bgl: Band of black sandy clayey ashy gravel with a very weak diesel odour.					
3.00 - 4.00	67mm	100%	3.00	SPT	N=16 (4,4,3,4,4,5)		3	3.10		42.39		
			3.00	ES			Very stiff very high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded of mudstone and siltstone. (GLACIAL TILL)					
			3.00 - 3.45	D			*... At 3.10m bgl: no notable evidence of contamination migrating into underlying clay.*					
			3.00	PID	23.8ppm							
			3.50	ES								
			3.50	PID	1.5ppm							
			3.70	ES								
4.00 - 5.00	57mm	80%	4.00	SPT	N=22 (3,5,4,5,6,7)		4		(2.35)			
			4.50 - 5.00	B								
							5	5.45		40.04		
			5.00	SPT	N=24 (4,4,5,5,6,8)		End of Borehole at 5.45m					
							6					

General Remarks:
1. Concrete broken out between ground level and 0.20m bgl. 2. Hand dug inspection pit from 0.20m to 1.20m bgl. 3. Dynamic windowless sample drilling from 1.20m to 5.45m bgl. 4. Complete at 5.45m bgl. 5. Installed on completion with a response zone between 0.50m and 3.00m bgl.

Groundwater: Water ingress at 2.80m

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
WS703
Page No. 1 of 1

Method: Dynamic (Windowless) Sampler	Date(s): 22/11/2021	Logged By: RS	Drilled By: Earth Engineering
Client: Crowning Developments Limited	Co-ords: 384709.83, 399258.22	Checked By: DL	Rig: Archway Dart
Hydrock Project No: 21353	Ground Level: 45.59m OD		Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
							Black ASPHALT HARDSTANDING (BITUMINOUS MATERIAL)	0.10	(0.10)	45.49		
							Light brown sandy angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)	0.60	(0.50)	44.99		
			0.70 - 1.00	B			Black and yellowish brown COBBLES of subangular sandstone. (MADE GROUND)	0.70	(0.10)	44.89		
			0.80	ES			Black sandy ashy angular to subangular fine to coarse GRAVEL of coal. (MADE GROUND)	1.20	(0.50)	44.39		
1.20 - 1.80	87mm	100%	1.20	SPT	N=11 (4,2,2,2,3,4)		Soft to firm low to medium strength orangish brown and dark brown sandy gravelly CLAY. Gravel is angular to subangular fine to coarse of brick, coal and sandstone. (MADE GROUND)					
			1.20 - 1.65	D			*... Between 1.30m and 1.50m bgl: Band of black ashy gravel of coal and clinker with a weak diesel odour.*		(0.60)			
			1.40	ES			*... At 1.70m bgl: lenses of black gravel of coal.*	1.80		43.79		
			1.40	PID	0.5ppm		End of Borehole at 1.80m					
			1.70	ES								
			1.75	D								

General Remarks:
1. Asphalt broken out between ground level and 0.10m bgl. 2. Hand dug inspection pit from 0.10m to 1.20m bgl. 3. Dynamic windowless sample drilling from 1.20m to 1.80m bgl. 4. Terminated due to inclination of rods and sampler at 1.80m bgl. 5. Installed on completion with a response zone between 0.80m and 1.80m bgl.

Groundwater: Water ingress at 1.10m

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Borehole No
WS704
Page No. 1 of 1

Method: Dynamic (Windowless) Sampler	Date(s): 22/11/2021	Logged By: RS	Drilled By: Earth Engineering
Client: Crowning Developments Limited	Co-ords: 384695.34, 399190.43	Checked By: DL	Rig: Archway Dart
Hydrock Project No: 21353	Ground Level: 45.77m OD		Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
							Strong light grey REINFORCED CONCRETE. 60% aggregate of angular to subangular fine to coarse limestone gravels. (CONCRETE)	0.18	(0.18)	45.59		
			0.30 - 0.50	B			*... At 0.05m bgl: rebar present and is 7mm in diameter.* *... At 0.11m bgl: rebar present and is 7mm in diameter.* Dark brown sandy silty angular to subangular fine to coarse GRAVEL of brick, sandstone and concrete. Low cobble content of subangular brick. (MADE GROUND)	0.65	(0.47)	45.12		
			0.70	ES			Dense black slightly sandy ashy angular to subangular fine to coarse GRAVEL of coal, brick, sandstone, slag and clinker. (MADE GROUND)					
			0.90	ES			*... Between 0.65m and 1.20m bgl: weak diesel odour.*	1				
1.20 - 2.00	87mm	100%	1.20	SPT	N=45 (2,2,3,4,29,9)				(0.85)			
			1.20 - 1.50	ES			*... Between 1.20m and 1.30m bgl: slightly clayey and green grey hue.* *... Between 1.20m and 1.50m bgl: weak solvent odour.*	1.50		44.27		
			1.20 - 1.65	D			Stiff becoming very stiff high strength reddish brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of mudstone, siltstone and sandstone. (GLACIAL TILL)					
			1.30	PID	41.8ppm		*... At 1.50m bgl: visual sheen on top of clay no notable downward migration.*					
			1.80	ES			*... At 1.90m bgl: Lense of dark red silty fine and medium sand.*	2				
			1.80	PID	0.2ppm							
2.00 - 3.00	77mm	100%	2.00	SPT	N=14 (2,3,3,3,3,5)							
			2.00 - 2.45	D			*... Between 2.20m and 2.40m bgl: small pockets of reddish brown silty fine and medium sand.*					
			2.50	ES								
			2.50 - 3.00	B								
3.00 - 4.00	67mm	100%	3.00	SPT	N=17 (2,2,4,3,4,6)			3	(3.95)			
			3.00 - 3.45	D								
4.00 - 5.00	57mm	90%	4.00	SPT	N=25 (3,4,5,5,7,8)			4				
			4.00 - 4.45	D								
			5.00	SPT	N=26 (4,5,5,6,7,8)			5				
			5.00 - 5.45	D								
								5.45		40.32		
							End of Borehole at 5.45m					
								6				

General Remarks:
1. Concrete broken out between ground level and 0.18m bgl. 2. Hand dug inspection pit from 0.18m to 1.20m bgl. 3. Dynamic windowless sample drilling from 1.20m to 5.45m bgl. 4. Complete at 5.45m bgl. 5. Installed on completion with a response zone between 0.60m and 1.60m bgl.

Groundwater: No groundwater encountered

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Trialpit No TP701 Page No. 1 of 1

Method: Trial Pit	Date(s): 29/11/2021	Logged By: LH	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384596.82, 399217.69	Stability: Unstable	Dimensions: 1.60m x 0.70m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 43.58m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				ASPHALT HARDSTANDING. (BITUMINOUS MATERIAL)	0.20	(0.20)	43.38	
0.20 - 0.40	B			Dark brown sandy angular to sub-angular,fine to coarse GRAVEL with high cobble content. Gravel is of brlck, coal, limestone, concrete, sandstone with rare wire and fragments of floor tile. Cobbles are subangular of brick. Boulders are sub-angular of concrete. (MADE GROUND)	1.10	(0.90)	42.48	
0.40	ES			Base of Excavation at 1.10m				

General Remarks:
1. Asphalt hardstanding broken out between ground level and 0.20m bgl. 2. Machine dug trial pit from 0.20m to 1.10m bgl. 3. Terminated at 1.10m bgl due to instability. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP703
Page No. 1 of 1

Method: Trial Pit	Date(s): 19/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384663.80, 399213.24	Stability: Unstable	Dimensions: 3.00m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.83m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Very soft dark brown slightly gravelly sandy CLAY with rare rootlets. Gravel is subangular to subrounded fine and medium of sandstone and quartzite. (TOPSOIL)	0.30	(0.30)	45.53	
0.40 - 0.60	B			Light red becoming light brown sandy clayey angular to subangular fine to coarse GRAVEL of sandstone with rare fragments of plastic and metal. Medium cobble content of subangular sandstone. (MADE GROUND)				
0.50	ES		▼					
1.50 - 2.00	B					(3.00)		
2.50	ES				3.30		42.53	
				Base of Excavation at 3.30m				

General Remarks:
1. Machine dug trial pit from ground level to 3.30m bgl. 2. Terminated due to instability between 2.20m and 3.30m bgl in the gravel. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP704
Page No. 1 of 1

Method: Trial Pit	Date(s): 18/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384725.11, 399228.17	Stability: Unstable	Dimensions: 2.50m x 0.80m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.05m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)		(0.25)		
				... At 0.10m bgl: rebar is present and is 7mm in diameter.				
				... At 0.19 m bgl: rebar is present and is 7mm in diameter.	0.25		45.80	
				Light brown sandy slightly silty angular to subangular fine to coarse GRAVEL of sand stone. Low to medium cobble content of subangular sandstone. (MADE GROUND)				
				... At 0.25m bgl: waterproof membrane.				
				... Between 0.25m and 0.95m bgl: slightly unstable with spalling.		(0.70)		
				... Between 0.25m and 1.15m bgl: suspected concrete footing on western face of pit.				
					0.95		45.10	
				Black ASPHALT HARDSTANDING. (BITUMINOUS MATERIAL)		(0.20)		
					1.15		44.90	
				Base of Excavation at 1.15m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.25m bgl. 2. Machine dug trial pit from 0.25m and 1.15m bgl. 3. Terminated at 1.15m bgl due to concrete footing. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP707
Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384707.03, 399225.60	Stability: Unstable	Dimensions: 2.80m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.98m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)		(0.20)		
				... At 0.10m bgl: rebar present and is 10mm in diameter.	0.20		45.78	
				Light brown sandy silty angular to subangular fine to coarse GRAVEL of sandstone with rare fragments of timber. Medium cobble content of subangular sandstone. (MADE GROUND)				
				... At 0.20m bgl: rebar present and is 5mm in diameter. Waterproof membrane present.				
				... Between 1.20m and 2.40m bgl: relict brick wall unable to prove footing.		(2.20)		
				... Between 1.40m and 2.40m bgl: becoming unstable in gravels.				
				Base of Excavation at 2.40m	2.40		43.58	

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Machine dug trial pit from 0.20m to 2.40m bgl. 3. Terminated at 2.40m bgl due to instability. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Trialpit No TP708 Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384665.72, 399191.79	Stability: Stable	Dimensions: 3.00m / 0.60m
Hydrock Project No: 21353	Ground Level: 45.74m OD	Plant: JCB 3CX	Scale: 1:20

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 60% aggregate of angular to subangular fine to coarse of limestone and quartzite gravels. 2 - 3% small voids. Up to 4mm in diameter and penetrating 2-3mm. (CONCRETE)		(0.16)		
				... At 0.09m bgl: rebar present and is 7-10mm in diameter.	0.16		45.58	
0.40	ES			Dark brown sandy slightly clayey angular to subangular fine to coarse GRAVEL of sandstone. Medium cobble content of subangular sandstone and bricks. (MADE GROUND)		(0.79)		
				... At 0.16m bgl: waterproof membrane.				
					0.95		44.79	
				Light grey CONCRETE HARDSTANDING. (CONCRETE)	1.00	(0.05)	44.74	
				... Between 0.95m and 1.00m bgl: suspected concrete pad.				
				Base of Excavation at 1.00m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.16m bgl. 2. Machine dug trial pit from 0.60m to 1.00m bgl. 3. Terminated due to relict concrete slab at 1.00m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP709
Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384682.11, 399212.18	Stability: Stable	Dimensions: 2.80m / 0.60m
Hydrock Project No: 21353	Ground Level: 45.71m OD	Plant: JCB 3CX	Scale: 1:20

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 60% aggregate of angular to subangular fine to coarse of limestone and quartzite gravels. 2 - 3% small voids. Up to 4mm in diameter and penetrating 2-3mm. (CONCRETE)	0.12	(0.12)	45.59	
0.20 - 0.50	B			*... At 0.03m bgl: rebar present and is 8mm in diameter.* *... At 0.10m bgl: rebar present and is 8mm in diameter.* Light brown very sandy slightly silty angular to subangular fine to coarse GRAVEL of sandstone and brick. Medium cobble content of subangular sandstone. (MADE GROUND) *... Between 0.30m and 0.35m bgl: dark grey in hue.*	0.60	(0.48)	45.11	
0.65 0.65	ES PID	0.2ppm		Black and dark grey very sandy ashy angular to subangular fine to coarse GRAVEL of coal, sandstone, quartzite and brick. Medium cobble content of subangular sandstone. (MADE GROUND)	0.75	(0.15)	44.96	
				Black and yellowish brown COBBLES of subangular sandstone. (MADE GROUND)	0.85	(0.10)	44.86	
0.90 - 1.10	ES			Black very gravelly silty ashy fine to coarse SAND with weak becoming distinct diesel odours and low cobble content. Gravel is angular to subangular fine to coarse of clinker, sandstone, quartzite, slag, coal, granite and slate. Cobbles are subangular of brick. (MADE GROUND)				
1.05 1.05	ES PID	0.5ppm				(0.55)		
1.30 1.30	ES PID	2.3ppm			1.40		44.31	
				Base of Excavation at 1.40m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.12m bgl. 2. Machine dug trial pit from 0.12m to 1.40m bgl. 3. Terminated due to relict concrete slab at 1.40m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP710
Page No. 1 of 1

Method: Trial Pit	Date(s): 18/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384723.83, 399239.58	Stability: Unstable	Dimensions: 3.00m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.04m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)		(0.20)		
				... At 0.04m bgl: rebar present and is 7-10mm in diameter. *... At 0.16m bgl: rebar is present and is 7-10mm in diameter.*	0.20		45.84	
				Light brown very sandy silty angular to subangular fine to coarse GRAVEL of sandstone. Medium cobble content of subangular sandstone. (MADE GROUND)		(0.43)		
					0.63		45.41	
				Medium strong light grey REINFORCED CONCRETE. 60-70% aggregate of angular to subrounded fine to coarse limestone, quartz, quartzite and sandstone gravels. No notable voids. (CONCRETE)	0.75	(0.12)	45.29	
0.80 0.80 0.90	ES PID ES	0.2ppm		*... At 0.70m bgl: rebar is present and is 2-3mm in diameter.*				
				Black sandy very ashy angular to subrounded fine to coarse GRAVEL of coal, sandstone, limestone, concrete and quartzite. (MADE GROUND)	1.00	(0.25)	45.04	
				Dark red COBBLES of subangular brick. (MADE GROUND)		(0.30)		
					1.30		44.74	
				Black ashy angular to subangular fine to coarse GRAVEL of coal. (MADE GROUND)	1.40	(0.10)	44.64	
1.40 1.45	ES PID	0.3ppm		*... Between 1.30m and 1.50m bgl: slight instability and spalling.*				
1.60	HSV	16kPa		Very soft light brown sandy gravelly CLAY with occasional approximately 200 x 300mm pockets containing bitumen with a distinct diesel odour and a low cobble content. Gravel is angular to subangular fine to coarse of brick, sandstone, coal and bitumen. Cobbles are subangular of bitumen. (MADE GROUND)		(0.20)		
					1.60		44.44	
				Base of Excavation at 1.60m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl and between 0.63m and 0.75m bgl. 2. Machine dug trial pit from 0.20m and 0.63m bgl and from 0.75m and 1.60m bgl. 3. Terminated due to 600mm concrete pipe (undamaged) at 1.60m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP711
Page No. 1 of 1

Method: Trial Pit	Date(s): 19/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384732.76, 399252.25	Stability: Unstable	Dimensions: 2.50m / 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.98m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Black MACADAM. 70% aggregate of angular to subangular fine to coarse quartzite, limestone and basalt gravels. (BITUMINOUS MATERIAL)	0.25	(0.25)	45.73	
0.45 - 0.60	B			Light brown sandy angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)		(0.35)		
				... Between 0.50m and 0.60m bgl: one boulder of subangular concrete.	0.60		45.38	
0.60 - 0.80	B			Black very sandy ashy angular to subangular fine to coarse GRAVEL of coal, brick, sandstone, limestone, clinker and mudstone. Medium to high cobble content of subangular brick and clinker. (MADE GROUND)				
0.65	ES							
0.65	PID	0.3ppm						
0.70	ES							
				... Between 1.00m and 1.60m bgl: relict brick wall on eastern face, unable to prove base.		(1.00)		
				... Between 1.25m and 1.65m bgl: band of dark red gravelly fine to coarse sand.				
1.40	ES				1.60		44.38	
				Base of Excavation at 1.60m				

General Remarks:
1. Asphalt hardstanding broken out between ground level 0.25m bgl. 2. Machine dug trial pit from 0.25m to 1.60m bgl. 3. Terminated at 1.60m bgl due to suspected relict brick floor (potential infilled cellar). 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Trialpit No TP712 Page No. 1 of 1

Method: Trial Pit	Date(s): 29/11/2021	Logged By: LH	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384651.74, 399169.09	Stability: Stable	Dimensions: 2.90m / 1.30m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.79m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Soft dark brown sandy very gravelly CLAY with rare rootlets and a low cobble content. Gravel is angular to subrounded fine to coarse of brick concrete, quartzitic sandstone, coal with rare plastic. Cobbles are sub-angular of brick. (MADE GROUND) *... Concrete on north west side of trial pit, small duct present undamaged- possible CCTV.*	0.30	(0.30)	45.49	
				Light brown sandy slightly silty angular to subangular, fine to coarse GRAVEL of sandstone, mudstone, quartz and brick. (MADE GROUND)	0.40	(0.10)	45.39	
				Light grey REINFORCED CONCRETE 70% aggregate of subangular to sub-rounded fine to coarse limestone and quartzite gravels. (CONCRETE) *... At 0.40m bgl: brick wall present of 4 courses on western wall* *... At 0.60m bgl: rebar present and 2mm in diameter.*	0.66	(0.26)	45.13	
				Dark grey CONCRETE 80% aggregate of angular to subangular medium to coarse brick, sandstone and coal gravels. (CONCRETE) *... At 0.95m bgl: cast iron pipe of 150mm diameter undamaged.*	1.10	(0.44)	44.69	
1.30 1.40 1.40	ES D HSV	48kPa		Firm dark brown and orange brown slightly sandy gravelly CLAY with low cobble content. Gravel is angular to subangular medium to coarse of coal, slate, brick and sandstone. Cobbles are sub-angular of brick. (MADE GROUND) *... Between 1.20m and 1.65m bgl: sandstone footing on northeast corner*	1.60	(0.50)	44.19	
1.80 1.80 1.87	ES HSV D	104kPa		Stiff dark high strength brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is subangular to sub-rounded, fine to medium of sandstone and mudstone. (GLACIAL TILL)	1.90	(0.30)	43.89	
				Base of Excavation at 1.90m				

General Remarks:
1. Machine dug trial pit from ground level to 1.90m bgl. 2. Terminated due to extent of excavation caused by concrete hardstanding broken out between 0.66m and 1.10m bgl. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP713
Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384674.12, 399175.59	Stability: Stable	Dimensions: 3.00m / 0.80m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.80m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)	0.17	(0.17)	45.63	
				... At 0.07m bgl: rebar is present and is 7-10mm in diameter.				
				Light brown sandy clayey angular to subangular fine to coarse GRAVEL of sandstone. (MADE GROUND)	0.50	(0.33)	45.30	
0.55	ES			Black sandy very ashy angular to subangular fine to coarse GRAVEL of coal, clinker and limestone. (MADE GROUND)	0.60	(0.10)	45.20	
				Medium strong to strong light pink REINFORCED CONCRETE. 60-70% aggregate of angular to subangular fine to coarse limestone, sandstone and quartzite gravels. (CONCRETE)	0.95	(0.35)	44.85	
				... At 0.85m bgl: rebar is present and is 3mm in diameter.				
1.00 1.05 1.10 1.10 1.10	D D ES HSV PID	 14kPa 8.9ppm		Very soft very low strength black and orangish brown sandy slightly gravelly CLAY with local moderate organic (humic) odour, a very weak diesel odour and low cobble content. Gravel is angular to subangular fine to coarse of coal, brick, mudstone and sandstone. Cobbles are subangular of brick. (MADE GROUND)	1	(0.35)		
				... At 1.20 m bgl: 100mm infilled clay pipe, water entering from pipe bedding contained a visual sheen.	1.30		44.50	
1.40 - 1.60 1.40 1.40	ES HSV PID	 28kPa 454.2ppm		Soft low strength black sandy slightly gravelly CLAY with a distinct diesel odour and contains approximately 100 x 100mm gravelly pockets containing a visual sheen. Gravel is subangular fine and medium of coal, mudstone, slate and quartzite. (MADE GROUND)		(0.40)		
				... Between 1.55m and 1.70m bgl: relict concrete slab on northern wall.	1.70		44.10	
				Base of Excavation at 1.70m				
					2			
					3			
					4			

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.17m bgl and between 0.60m and 0.95m bgl. 2. Machine dug trial pit between 0.17m and 0.60m bgl and between 0.95m and 1.70m bgl. 3. Terminated due to extent of dig associated with buried relict slabs. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP714
Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384717.17, 399201.81	Stability: Stable	Dimensions: 3.00m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.18m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)		(0.20)		
				... Between 0.00m and 0.06m bgl: concrete is light pink in hue.				
				... At 0.1m bgl: rebar present and is 7-8mm in diameter.				
				... At 0.15m bgl: rebar is present and is 7-8mm in diameter.	0.20		45.98	
0.50	ES			Light brown sandy very clayey angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)		(1.10)		
				... Between 0.80m and 1.00m bgl: relict concrete slab.				
					1.30		44.88	
				Base of Excavation at 1.30m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Machine dug trial pit from 0.20m to 1.30m bgl. 3. Terminated due to a 300mm diameter clay pipe (undamaged). 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP715
Page No. 1 of 1

Method: Trial Pit	Date(s): 18/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384731.72, 399220.47	Stability: Stable	Dimensions: 3.00m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.01m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)	0.25	(0.25)	45.76	
				Light brown sandy slightly silty angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)	0.65	(0.40)	45.36	
0.70 - 0.90 0.75	B ES			Black gravelly ashy fine to coarse SAND. Gravel is angular to subangular fine to coarse of limestone, coal, clinker, brick and quartzite. (MADE GROUND)	0.90	(0.25)	45.11	
0.90 0.90	ES PID	0.1ppm		Black COBBLES of subangular sandstone. (MADE GROUND)	1.15	(0.25)	44.86	
1.20 - 1.40 1.25 1.30 1.30	B ES D HSV	70kPa		Firm medium strength dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse of sandstone and siltstone. (GLACIAL TILL)	2.25	(1.10)	43.76	
1.70	HSV	75kPa						
2.00 2.00	D HSV	71kPa						
				Base of Excavation at 2.25m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.25m bgl. 2. Machine dug trial pit from 0.25m to 2.25m bgl. 3. Complete at 2.25m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP716
Page No. 1 of 1

Method: Trial Pit	Date(s): 29/11/2021	Logged By: LH	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384656.93, 399158.40	Stability: Stable	Dimensions: 2.30m x 0.90m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.00m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Soft dark brown slightly gravelly sandy CLAY with rootlets. Gravel of angular to subrounded fine to medium of mudstone, coal and sandstone. (MADE GROUND)	0.25	(0.25)	45.75	
0.30 - 0.60	B			Greyish brown sandy clayey angular to sub-angular fine to coarse GRAVEL with low cobble content and very weak diesel odour. Gravel is sandstone, coal, brick, slag and timber. Cobbles are angular to subangular of brick, sandstone and concrete. (MADE GROUND)	0.60	(0.35)	45.40	
0.50 0.50	D ES			Medium strong pinkish grey reinforced CONCRETE 70% aggregates of subangular to sub-rounded medium to coarse sanstone, limestone, quartz, quartziite gravels. (CONCRETE) *... At 0.60m bgl: undamaged plastic duct - possible CCTV.* *... At 0.75m bgl: rebar present and 2mm in diameter.*	0.77	(0.17)	45.23	
				Strong black CONCRETE 70-80% aggregates of angular to sub-angualr medium to coarse brick and sandstone. (CONCRETE)	1.10	(0.33)	44.90	
1.10 1.10 1.20	ES HSV D	15kPa		Very soft light brown sandy gravelly CLAY with approxmately 100x200mm pockets of black gravel containing a weak diesel odour and visual sheen. (MADE GROUND) *... At 1.30m bgl: clay pipe present, redundant and infilled.*	1.70	(0.60)	44.30	
1.80	ES			Stiff high strength dark brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded fine of mudstone and sandstone. (GLACIAL TILL)	2.00	(0.30)	44.00	
1.90 1.90	D HSV	95kPa		Base of Excavation at 2.00m				

General Remarks:
1. Machine dug trial pit from ground level to 2.00m bgl. 2. Terminated due to extent of excavation caused by concrete hardstanding broken out between 0.60m and 0.77m bgl. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP717
Page No. 1 of 1

Method: Trial Pit	Date(s): 19/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384685.24, 399160.76	Stability: Unstable	Dimensions: 3.00m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.25m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Dark red very sandy angular to subangular fine to coarse GRAVEL of sandstone. Medium cobble content of sandstone. (MADE GROUND)	0.15	(0.15)	46.10	
0.40	ES			Very stiff dark brown sandy gravelly dessicated CLAY with frequent rootlets and roots (up to 80mm in diameter). Gravel is angular to subrounded fine to coarse of coal, brick, sandstone, concrete, limestone and clinker with occasional glass, wire, ceramic and plastic. (MADE GROUND)				
0.50	D			*... Between 0.45m and 0.65m bgl: relict concrete slab on northern face.*	0.70	(0.55)	45.55	
				Light grey angular to subangular fine and medium GRAVEL of limestone. (MADE GROUND)				
					1.10	(0.40)	45.15	
				Base of Excavation at 1.10m				

General Remarks:
1. Machine dug trial pit from ground level to 1.10m bgl. 2. Terminated due to presence of 100mm clay pipe (undamaged) at 1.10m bgl. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP718
Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384702.62, 399180.61	Stability: Stable	Dimensions: 3.00m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.76m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE)	0.13	(0.13)	45.63	
				... At 0.08m bgl: rebar is present and is 7-10mm in diameter.				
				Light brown very sandy silty angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)	0.65	(0.52)	45.11	
				Strong light grey REINFORCED CONCRETE. 60% aggregate of subangular fine to coarse limestone gravels. (CONCRETE)	0.85	(0.20)	44.91	
				Base of Excavation at 0.85m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.13m bgl. 2. Machine dug trial pit from 0.13m and 0.85m bgl. 3. Terminated due to relict concrete slab between 0.65m and unable to penetrate at 0.85m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Trialpit No TP719 Page No. 1 of 1

Method: Trial Pit	Date(s): 17/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384721.80, 399193.65	Stability: Stable	Dimensions: 3.00m x 0.60m / Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.15m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE. 70% aggregate of angular to subangular fine to coarse limestone and quartzite gravels. 5% small voids. 3 to 4mm in diameter penetrating 3mm. (CONCRETE) *... Between 0.00m and 0.06m bgl: concrete is light pink in hue.* *... At 0.13m bgl: rebar present and is 8mm in diameter.* *... At 0.18m bgl: rebar is present and is 8mm in diameter.*	0.20	(0.20)	45.95	
				Light brown sandy clayey angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)	0.75	(0.55)	45.40	
				Base of Excavation at 0.75m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.20m bgl. 2. Machine dug trial pit from 0.20m to 0.75m bgl. 3. Terminated due to relict concrete slab at 0.75m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Trialpit No TP720 Page No. 1 of 1

Method: Trial Pit	Date(s): 19/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384744.25, 399202.07	Stability: Stable	Dimensions: 2.80m / 1.00m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 45.99m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20 0.20	ES PID	0.1ppm		Dark brown gravelly slightly clayey fine to coarse SAND with occasional rootlets and low cobble content. Gravel is angular to subangular fine to coarse of coal, clinker, brick, concrete, sandstone, quartzite and mudstone with rare fragments of glass, plastic and metal. Cobbles are subagular of concrete. (MADE GROUND)	0.30	(0.30)	45.69	
				Dark brown and brownish grey sandy slightly ashy angular to subrounded fine to coarse GRAVEL of sandstone, coal, clinker, quartzite, limestone and brick with rare fragments of glass. (MADE GROUND)	0.50	(0.20)	45.49	
				Black ASPHALT HARDSTANDING. (BITUMINOUS MATERIAL)	0.60	(0.10)	45.39	
				Light grey angular to subangular fine to coarse GRAVEL of limestone. (MADE GROUND) *... Between 0.60m and 0.80m bgl: relict concrete footing on northern face.*	0.80	(0.20)	45.19	
0.80 0.90	ES ES			Black ashy angular to subangular fine to coarse GRAVEL of coal. (MADE GROUND)	1.00	(0.20)	44.99	
				Black and yellowish brown COBBLES of subangular sandstone. (MADE GROUND)	1.10	(0.10)	44.89	
1.40 - 1.50 1.40	ES PID	0.3ppm		Black sandy ashy angular to subangular fine to coarse GRAVEL of slate, clinker and coal with a distinct diesel odour. (MADE GROUND)	1.50	(0.40)	44.49	
1.60 1.70 - 2.00 1.80	HSV B D	54kPa		Firm medium strength reddish brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded fine and medium of sandstone and mudstone. (GLACIAL TILL) *... At 1.50m bgl: perched water entering pit contains visual sheen and distinct diesel odour.* *... Between 1.50m to 2.00m bgl: no notable downward migration of contamination into clay.*	2.00	(0.50)	43.99	
				Base of Excavation at 2.00m				

General Remarks:
1. Machine dug trial pit from ground level to 2.00m bgl. 2. Terminated at 2.00m bgl due to extent of contamination. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
TP722
Page No. 1 of 1

Method: Trial Pit	Date(s): 29/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384707.76, 399244.19	Stability: Stable	Dimensions: 2.80m x 0.60m; Scale: 1:20
Hydrock Project No: 21353	Ground Level: 46.51m OD	Plant: JCB 3CX	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Light grey reinforced CONCRETE with 60% aggregates of sub-angular to sub-rounded fine to medium limestone quartz and basalt gravels. (CONCRETE)	0.25	(0.25)	46.26	
0.40 - 0.60	B			Greyish brown sandy silty angular to subangular fine to coarse GRAVEL of sandstone with a low cobble content of sandstone. (MADE GROUND) *... At 0.25m bgl: waterproof membrane.*	0.70	(0.45)	45.81	
1.00	ES			Light grey angular to sub-angular fine to coarse GRAVEL of limestone. (MADE GROUND) *... Between 0.90m and 0.95m bgl: layer of bricks.* *... Between 0.95m and 1.30m bgl: bitumen layer with a weak hydrocarbon odour.*	1.60	(0.90)	44.91	
1.70 1.70 1.80	ES HSV D	84kPa		Stiff high strength dark brown slightly sandy slightly gravelly CLAY. Gravel is angular to subrounded, fine to medium of mudstone and sandstone. (GLACIAL TILL)	1.90	(0.30)	44.61	
				Base of Excavation at 1.90m				

General Remarks:
1. Machine dug trial pit from ground level to 1.90m bgl. 2. Complete at 1.90m bgl. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock

Project: Gould Street

Trialpit No
MPBH703A
Page No. 1 of 1

Method: Hand-dug Pit	Date(s): 16/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384649.97, 399153.64	Stability: Stable	Dimensions: 0.30m x 0.30m / Scale: 1:25
Hydrock Project No: 21353	Ground Level: 45.83m OD	Plant:	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20 - 0.40	ES			Very soft dark brown sandy gravelly CLAY with frequent rootlets. Gravel is angular to subangular fine to medium of coal and brick. (TOPSOIL)	0.20	(0.20)	45.63	
0.30	ASB			Very soft greyish brown very sandy gravelly CLAY with a low cobble content. Gravel is angular to subangular fine to coarse of brick, coal, sandstone, quartzite and concrete. (MADE GROUND)	0.40	(0.20)	45.43	
				... Between 0.20m and 0.40m bgl: random suspected cement type asbestos (5x pieces at 60 x 80mm, 20 x 30mm and 10 x 15mm).				
				Base of Excavation at 0.40m				

General Remarks:
1. Hand dug pit from ground level to 0.40m bgl. 2. Terminated due to random suspected cement type asbestos. 3. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Hydrock	Project: Gould Street	Trialpit No MPBH707A Page No. 1 of 1

Method: Hand-dug Pit	Date(s): 29/11/2021	Logged By: RS	Checked By: DL
Client: Crowning Developments Limited	Co-ords: 384680.63, 399196.59	Stability:	Dimensions: m m	Scale: 1:25
Hydrock Project No: 21353	Ground Level: 45.67m OD	Plant:	

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Strong light grey REINFORCED CONCRETE HARDSTANDING. (CONCRETE) *... At 0.09m bgl: rebar present and 7mm in diameter.* *... At 0.12m bgl: rebar present and 7 and 20mm in diameter.*	0.16	(0.16)	45.51	
				Dark brown sandy slightly clayey angular to subangular fine to coarse GRAVEL of sandstone. Low cobble content of subangular sandstone. (MADE GROUND)	0.70	(0.54)	44.97	
				Base of Excavation at 0.70m				

General Remarks:
1. Concrete hardstanding broken out between ground level and 0.16m bgl. 2. Hand dug inspection pit from 0.16m to 0.20m bgl. 3. Terminated on suspected concrete footing at 0.70m bgl. 4. Backfilled with arisings on completion.

Logged in general accordance with BS5930:2015

Exploratory Hole Photographs

Site Investigation Photograph 1	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP708, final depth 1.00m.	

Site Investigation Photograph 2	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP708 short end, final depth 1.00m.	

Site Investigation Photograph 3	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP708 long end, final depth 1.00m.	

Site Investigation Photograph 4	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP709, final depth 1.40m.	

Site Investigation Photograph 5	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP709 long end, final depth 1.40m.	

Site Investigation Photograph 6	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP709 short end, final depth 1.40m.	

Site Investigation Photograph 7	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP707, final depth 2.40m.	

Site Investigation Photograph 8	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP707 short end, final depth 2.40m.	

Site Investigation Photograph 9	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP707 long end, final depth 2.40m.	

Site Investigation Photograph 10	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP714, final depth 1.30m.	

Site Investigation Photograph 11	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP714 short end, final depth 1.30m.	

Site Investigation Photograph 12	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP714 long end, final depth 1.30m.	

Site Investigation Photograph 13	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP719, final depth 0.75m.	

Site Investigation Photograph 14	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP719 short end, final depth 0.75m.	

Site Investigation Photograph 15	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP719 long end, final depth 0.75m.	

Site Investigation Photograph 16	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP718, final depth 0.85m.	

Site Investigation Photograph 17	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP718 long end, final depth 0.85m.	

Site Investigation Photograph 18	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP718 short end, final depth 0.85m.	

Site Investigation Photograph 19	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP713, final depth 1.70m.	

Site Investigation Photograph 20	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP713 short end, final depth 1.70m.	

Site Investigation Photograph 21	
Date: 17/11/21	
Direction Photograph Taken: n/a.	
Description: TP713 long end, final depth 1.70m.	

Site Investigation Photograph 22	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP710, final depth 1.80m.	

Site Investigation Photograph 23	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP710 long end, final depth 1.80m.	

Site Investigation Photograph 24	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP710 short end, final depth 1.80m.	

Site Investigation Photograph 25	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP704, final depth 1.75m.	

Site Investigation Photograph 26	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP704 long end, final depth 1.75m.	

Site Investigation Photograph 27	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP704 short end, final depth 1.75 m.	

Site Investigation Photograph 28	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP715, final depth 2.20m.	

Site Investigation Photograph 29	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP715, final depth 2.20m.	

Site Investigation Photograph 30	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP715 short end, final depth 2.20m.	

Site Investigation Photograph 31	
Date: 18/11/21	
Direction Photograph Taken: n/a.	
Description: TP715 long end, final depth 2.20m.	

Site Investigation Photograph 32	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP711, final depth 1.60m.	

Site Investigation Photograph 33	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP711 short end, final depth 1.60m.	

Site Investigation Photograph 34	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP711 short end, final depth 1.60m.	

Site Investigation Photograph 35	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP703, final depth 3.30m.	

Site Investigation Photograph 36	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP703 long end, final depth 3.30m.	

Site Investigation Photograph 37	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP703 short end, final depth 3.30m.	

Site Investigation Photograph 38	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP720, final depth 2.00m.	

Site Investigation Photograph 39	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP720 long end, final depth 2.00m.	

Site Investigation Photograph 40	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP720 short end, final depth 2.00m.	

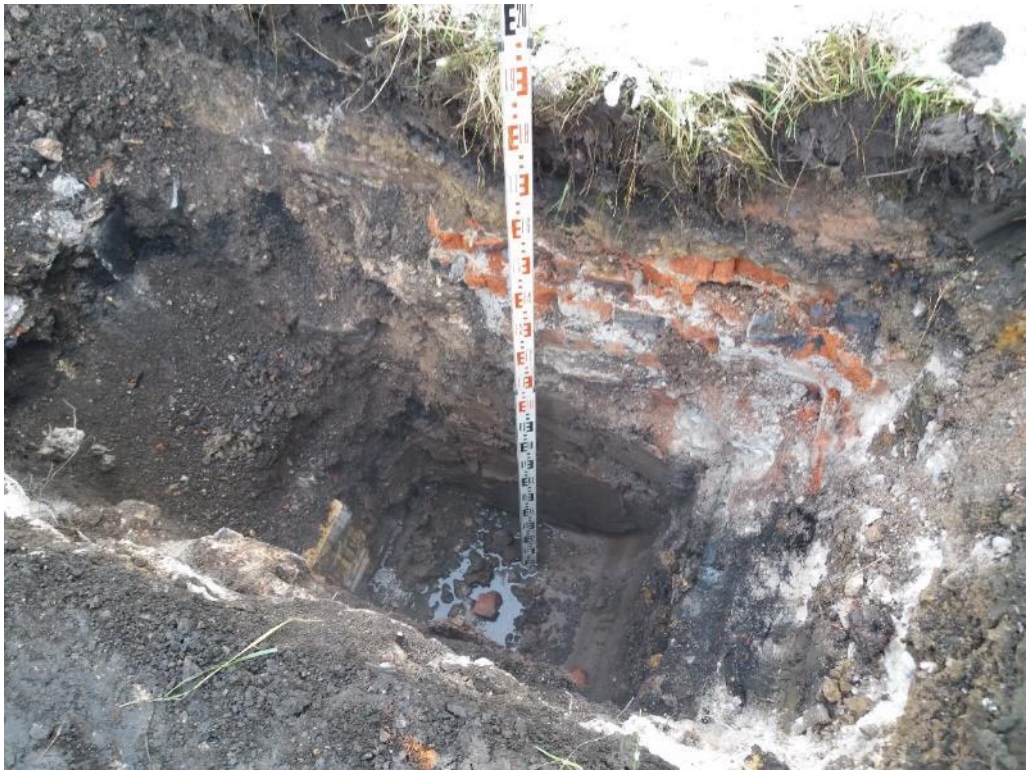
Site Investigation Photograph 41	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP717, final depth 1.10m.	

Site Investigation Photograph 42	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP717 short end, final depth 1.10m.	

Site Investigation Photograph 43	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP717 long end, final depth 1.10m.	

Site Investigation Photograph 44	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP712, final depth 1.90m.	

Site Investigation Photograph 45	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP712 long end, final depth 1.90m.	

Site Investigation Photograph 46	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: TP712 short end, final depth 1.90m.	

Site Investigation Photograph 47	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP713, final depth 2.00m.	

Site Investigation Photograph 48	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP713 long end, final depth 2.00m.	

Site Investigation Photograph 49	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP713 short end, final depth 2.00m.	

Site Investigation Photograph 50	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP702, final depth 1.10m.	

Site Investigation Photograph 51	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP702 short end, final depth 1.10m.	

Site Investigation Photograph 52	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP713 long end, final depth 1.10m.	

Site Investigation Photograph 53	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP722, final depth 1.90m.	

Site Investigation Photograph 54	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP722 long end, final depth 1.90m.	

Site Investigation Photograph 55	
Date: 29/11/21	
Direction Photograph Taken: n/a.	
Description: TP722 short end, final depth 1.90m.	

Site Investigation Photograph 56	
Date: 15/11/21	
Direction Photograph Taken: n/a.	
Description: WS704, ground level to 1.20m bgl.	

Site Investigation Photograph 57	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS704, 1.20m to 5.00m bgl.	

Site Investigation Photograph 58	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS702, ground level to 1.20m bgl.	

Site Investigation Photograph 59	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS702, 1.20m to 5.00m bgl.	

Site Investigation Photograph 60	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS703, ground level to 1.20m bgl.	

Site Investigation Photograph 61	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS703, 1.20m to 1.80m bgl.	

Site Investigation Photograph 62	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS701, ground level to 1.20m bgl.	

Site Investigation Photograph 63	
Date: 22/11/21	
Direction Photograph Taken: n/a.	
Description: WS701, 1.20m to 5.00m bgl.	

Site Investigation Photograph 64	
Date: 19/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH707A, ground level to 0.70m bgl.	

Site Investigation Photograph 65	
Date: 23/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH710, 1.20m to 2.00m bgl.	

Site Investigation Photograph 66	
Date: 23/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH710, 16.50m to 18.00m bgl.	

Site Investigation Photograph 67	
Date: 23/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH704, 1.20m to 10.10m bgl.	

Site Investigation Photograph 68	
Date: 23/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH703, 1.20m to 9.00m bgl.	

Site Investigation Photograph 69	
Date: 25/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH703, 16.00m to 19.00m bgl.	

Site Investigation Photograph 70	
Date: 30/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH706, 19.00m to 21.50m bgl.	

Site Investigation Photograph 71	
Date: 30/11/21	
Direction Photograph Taken: n/a.	
Description: MPBH707, 1.20m to 7.00m bgl.	

Site Investigation Photograph 72	
Date: 02/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH707, 16.00m to 17.00m bgl.	

Site Investigation Photograph 73	
Date: 01/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH705, ground level to 1.20m bgl.	

Site Investigation Photograph 74	
Date: 13/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH705, 2.00m to 5.00m bgl.	

Site Investigation Photograph 75	
Date: 14/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH705, 17.50m to 20.50m bgl.	

Site Investigation Photograph 76	
Date: 14/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH705, 20.50m to 23.50m bgl.	

Site Investigation Photograph 77	
Date: 01/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH709, ground level to 1.20m bgl.	

Site Investigation Photograph 78	
Date: 01/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH709, 1.20m to 5.00m bgl.	

Site Investigation Photograph 79	
Date: 06/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH709, 15.50m to 18.00m bgl.	

Site Investigation Photograph 80	
Date: 02/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH711, 3.00m to 7.50m bgl.	

Site Investigation Photograph 81	
Date: 06/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH711, 17.00m to 19.50m bgl.	

Site Investigation Photograph 82	
Date: 09/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH715, 16.00m to 17.00m bgl.	

Site Investigation Photograph 83	
Date: 09/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH715, 20.00m to 21.00m bgl.	

Site Investigation Photograph 84	
Date: 09/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH713, 16.00m to 18.00m bgl.	

Site Investigation Photograph 85	
Date: 09/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH713, 18.00m to 21.00m bgl.	

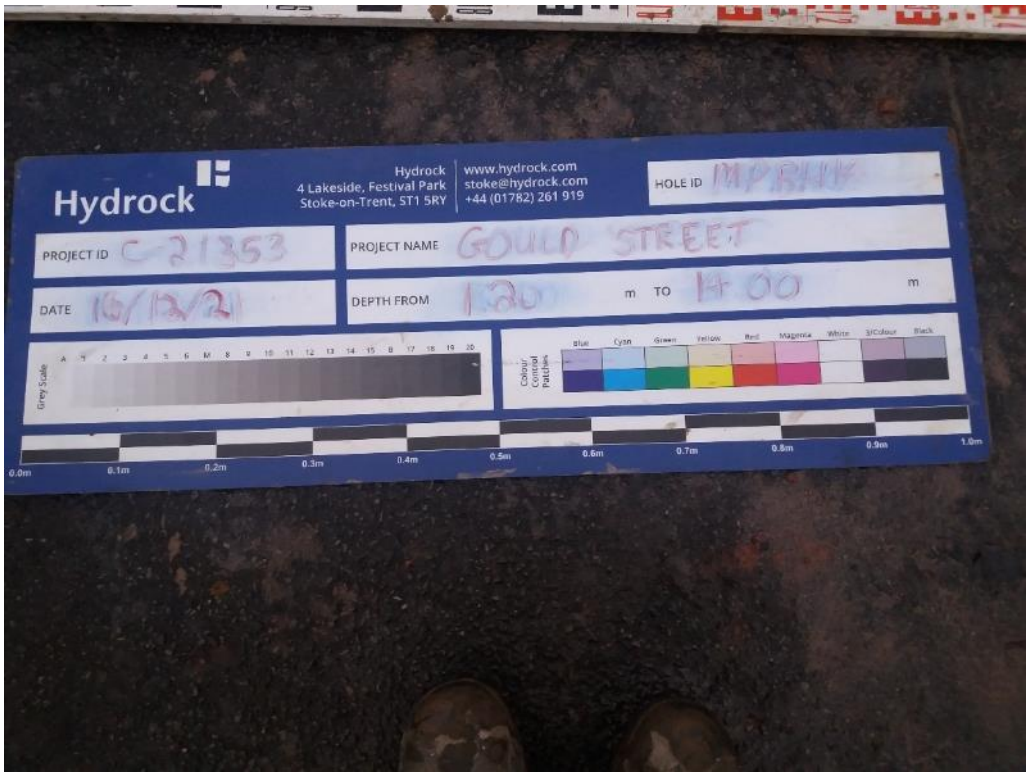
Site Investigation Photograph 86	
Date: 13/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH702, 2.00m to 6.00m bgl.	

Site Investigation Photograph 87	
Date: 14/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH702, 18.50m to 20.50m bgl.	

Site Investigation Photograph 88	
Date: 14/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH702, 20.50m to 22.00m bgl.	

Site Investigation Photograph 89	
Date: 16/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH701, 1.20m to 6.00m bgl.	

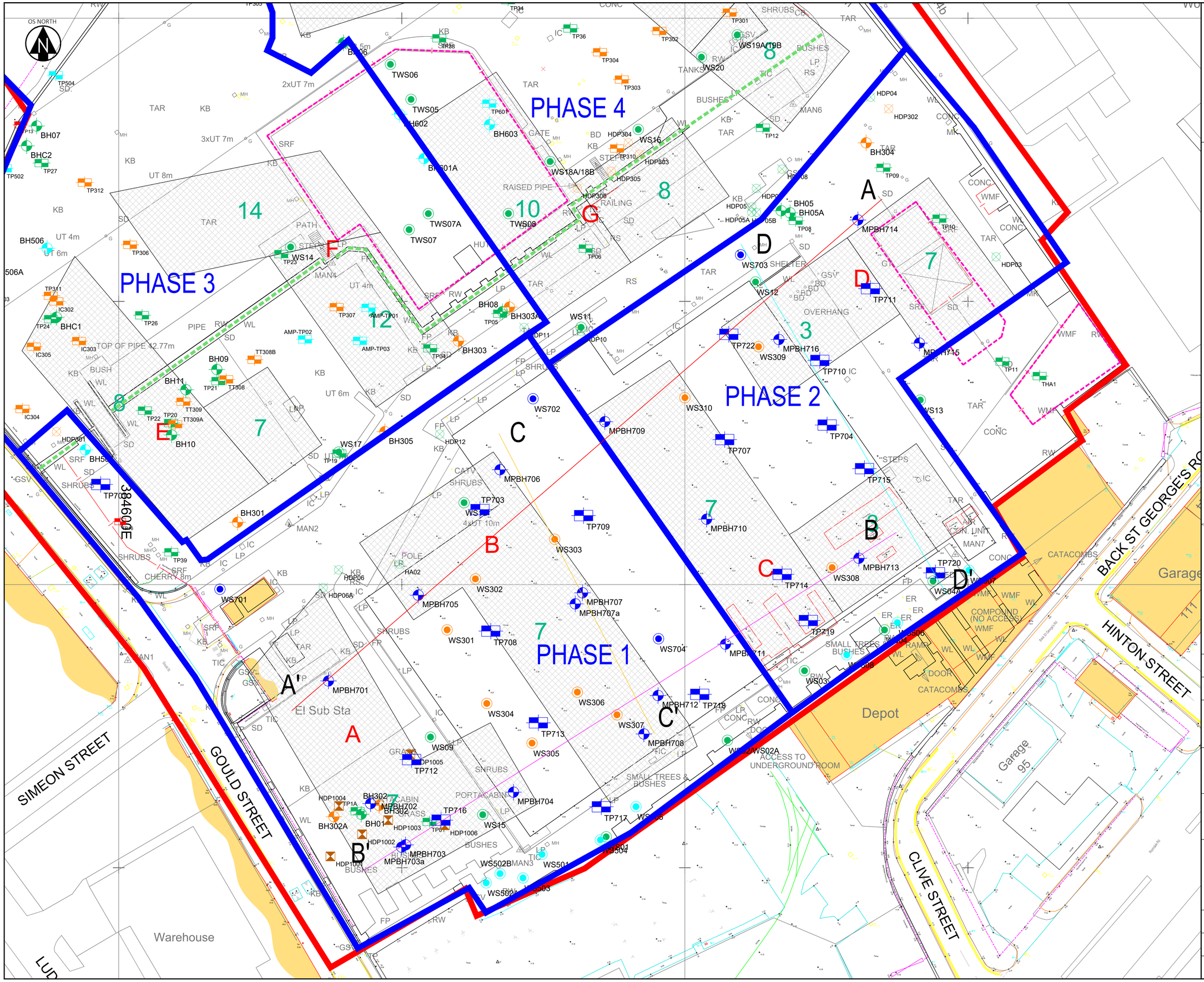
Site Investigation Photograph 90	
Date: 17/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH701,18.00m to 19.50m bgl.	

Site Investigation Photograph 91	
Date: 16/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH714, 1.20m to 14.00m bgl.	

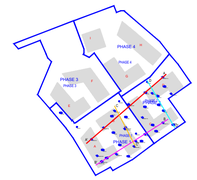
Site Investigation Photograph 92	
Date: 16/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH714, 1.20m to 14.00m bgl.	

Site Investigation Photograph 93	
Date: 17/12/21	
Direction Photograph Taken: n/a.	
Description: MPBH714, 15.00m to 19.50m bgl.	

Cross Sections



KEY



NOTES

1. All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.

2. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications.

3. This drawing has been based on the following drawings and information: 200414_Merged-Topography

Key:

- Retaining Wall
- Development Phases
- Retaining Wall
- Retained Gas Infrastructure Land

Proposed Buildings:

- Proposed Building
- A — Block Name
- 30 — No. Floors

Historical Site Investigation

Parkman - 1992

- TPXX — TRIAL PIT

Entec - 2002

- HDPXX — HAND DUG TRIAL PIT
- TPXX — TRIAL PIT
- WSXX — WINDOW SAMPLE
- BHXX — BOREHOLE

Entec - 2009

- TPXX / TPXXX / TTXX — TRIAL PIT / TRIAL TRENCH
- WSXXX — WINDOW SAMPLE
- BHXXX — BOREHOLE

Amec - 2011

- TPXXX — TRIAL PIT
- WSXXX — WINDOW SAMPLE
- BHSXX / BHSXX — BOREHOLE

WYG - 2014

- HDP10XX — HAND DUG PIT

Hydrock Site Investigation

Hydrock - 2021

- TPXXX — TRIAL PIT
- WSTXX — WINDOW SAMPLE
- MPBHTXX — BOREHOLE

REV.	FIRST ISSUE					
P1	RS	01/02/22	DH	02/02/22	DH	02/02/22
	REVISION NOTES/COMMENTS					
REV.	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE

Hydrock
4 Lakeside
Festival Way
Stoke-on-Trent
ST1 5RY
t: +44(0) 1782 261919
e: stoke@hydrock.com
or visit www.hydrock.com

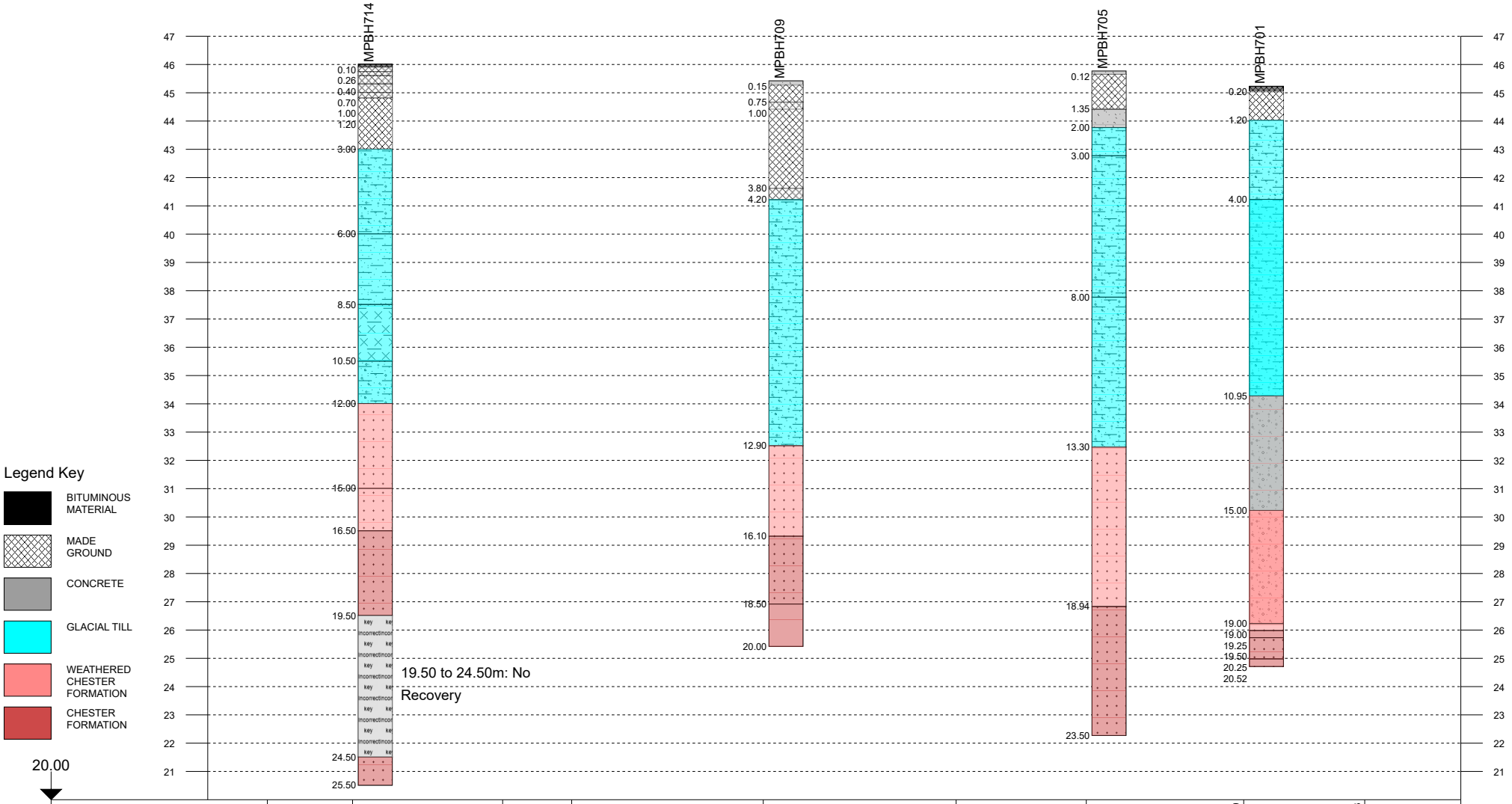
CLIENT
CROWNING DEVELOPMENTS LIMITED

PROJECT
GOULD STREET

TITLE
PHASE 1 & 2 CONTOUR PLAN

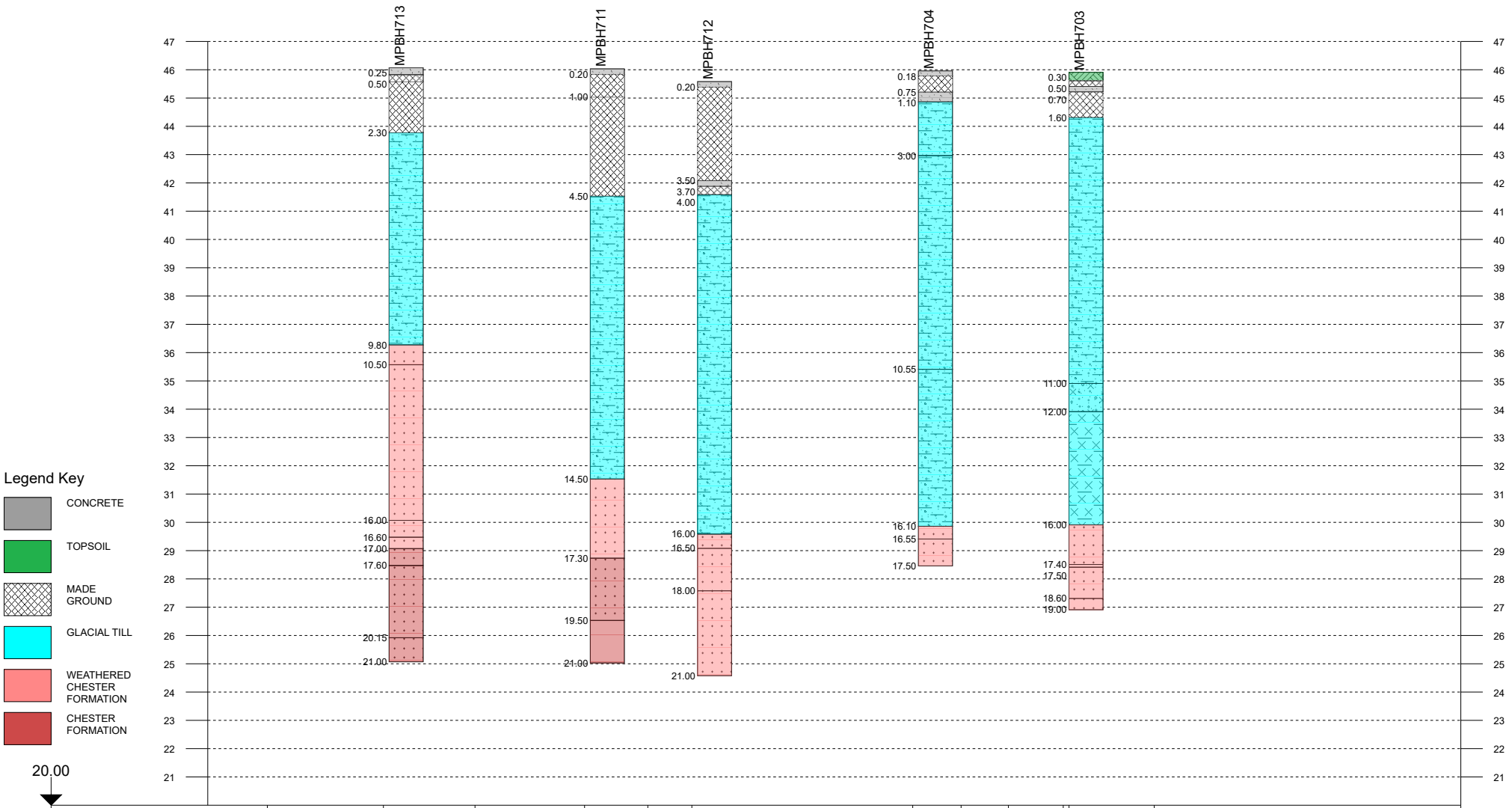
HYDROCK PROJECT NO.	SCALE @ A1
21353	1:300
PURPOSE OF ISSUE: SUITABLE FOR INFORMATION	STATUS: S2
DRAWING NO. (PROJECT CODE-ORGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER): 21353-HYD-XX-XX-DR-GE-1017	REVISION: P01

Project ID:	21353	Title:	Cross Section A
Project Title:	Gould Street	Document Reference:	A (MPBH714) to A' (MPBH701)
Location:	Gould Street, Manchester	Horizontal Scale:	1:787
Client:	Crowning Developments Limited	Vertical Scale:	1:200



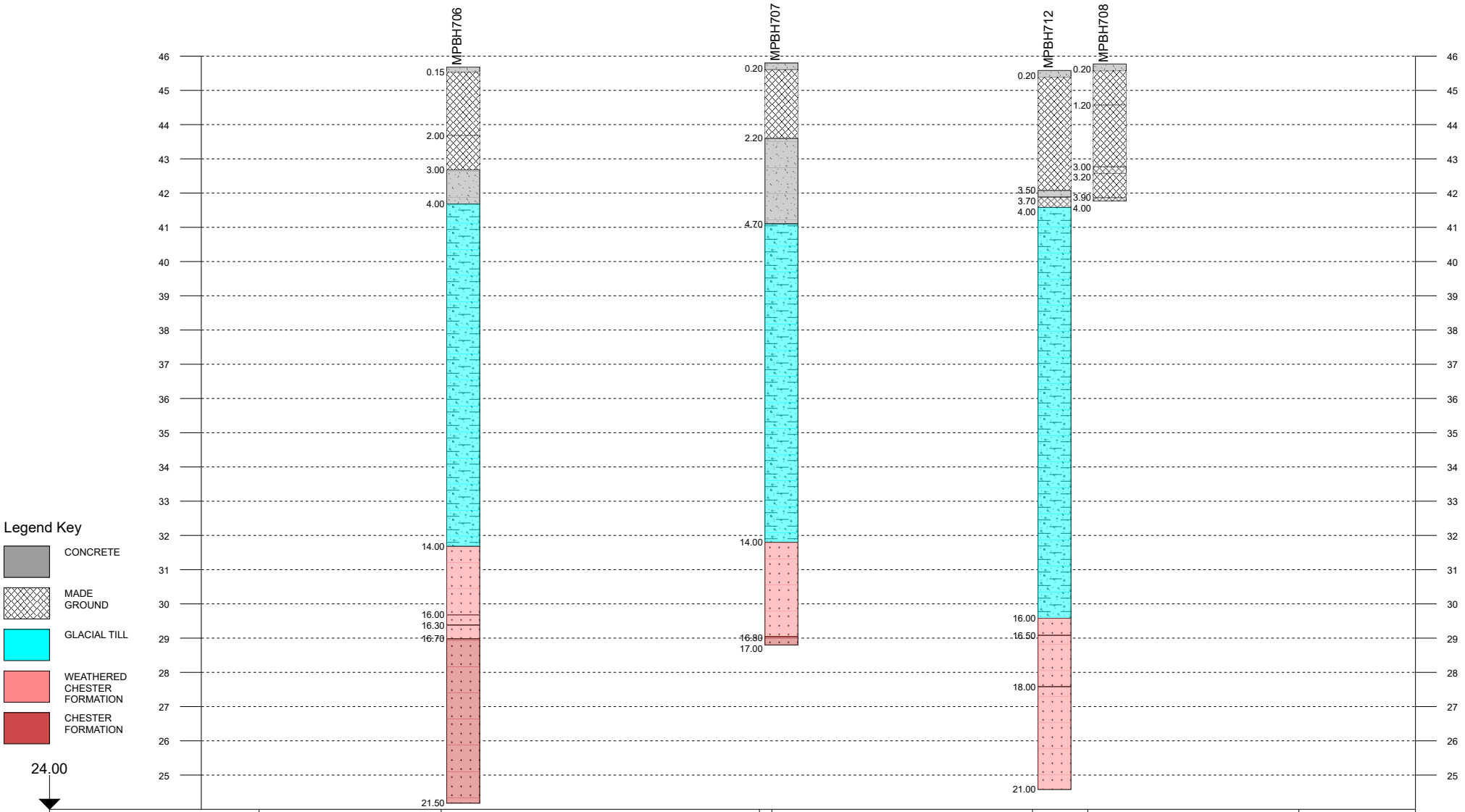
Chainage (m)	0.00	11.86	32.75	42.36	69.02	95.86	113.98	135.89	152.73
Offset (m)		0.44	3.97	0.06	2.68	5.34	1.01	0.10	
Elevation (mAOD)		46.01	45.97	46.51	45.42	45.83	45.77	45.23	

Project ID:	21353	Title:	Cross Section B
Project Title:	Gould Street	Document Reference:	B (MPBH713) to B' (MPBH703)
Location:	Gould Street, Manchester	Horizontal Scale:	1:787
Client:	Crowning Developments Limited	Vertical Scale:	1:200

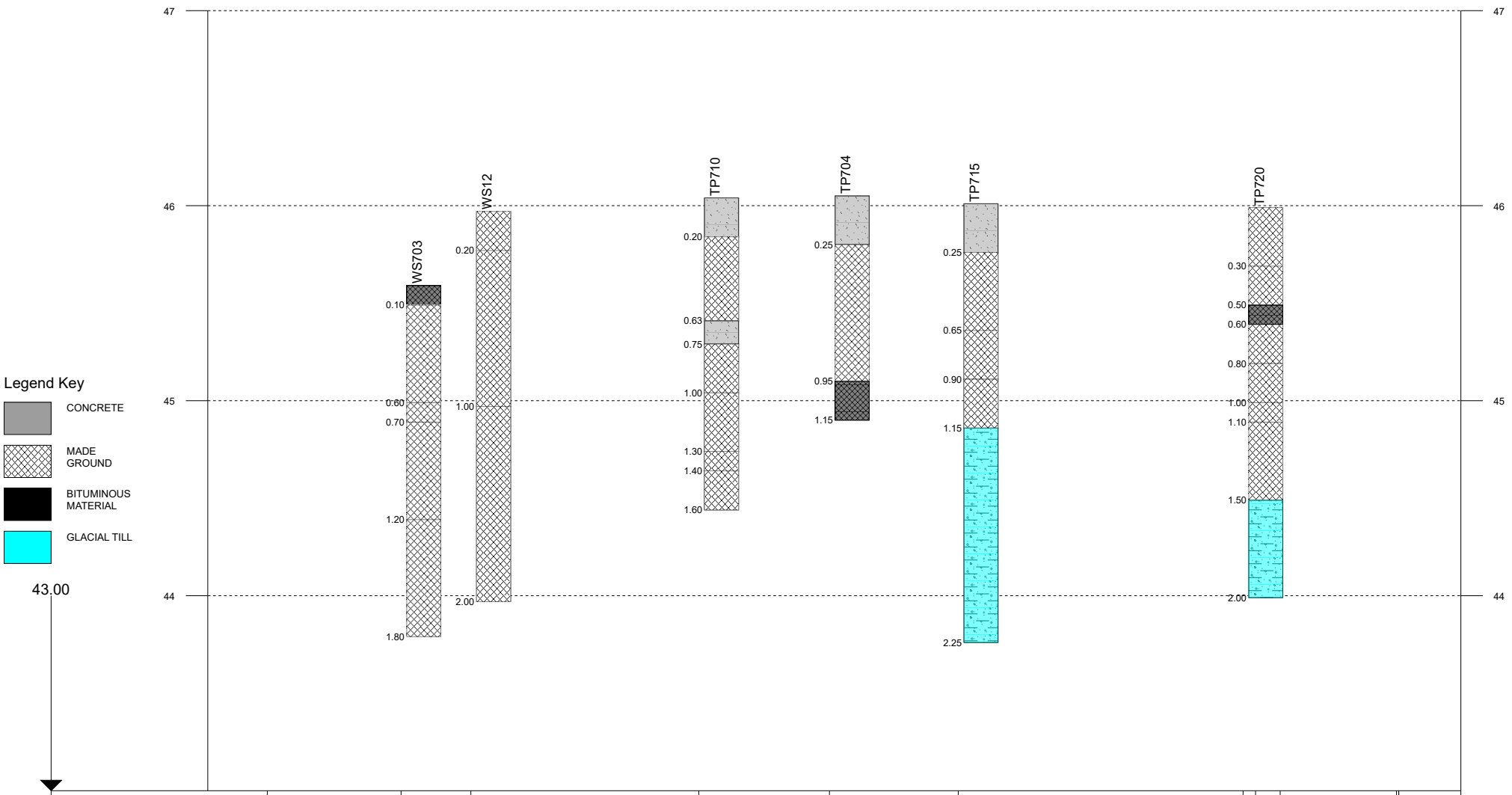


Chainage (m)	0.00	16.16	28.90	44.15	52.95	59.08	89.82	96.55	103.14	110.77	123.44
Offset (m)	2.23	3.19	1.22	5.90	1.89	1.28	1.44	1.97	1.97	2.04	
Elevation (mAOD)	46.07	46.18	46.03	45.76	45.58	45.96	45.93	46.00	45.91	45.83	

Project ID:	21353	Title:	Cross Section C
Project Title:	Gould Street	Document Reference:	C (MPBH706) to C' (MPBH708)
Location:	Gould Street, Manchester	Horizontal Scale:	1:450
Client:	Crowning Developments Limited	Vertical Scale:	1:160



Project ID:	21353	Title:	Cross Section D
Project Title:	Gould Street	Document Reference:	D (WS703) to D' (TP720)
Location:	Gould Street, Manchester	Horizontal Scale:	1:442
Client:	Crowning Developments Limited	Vertical Scale:	1:29



Chainage (m)	0.00	10.45	15.91	33.73	43.93	54.01	76.27	77.24	79.17	[illegible]
Offset (m)	1.34	1.79	0.01	5.26	4.02	3.78	4.93	1.39		
Elevation (mAOD)	45.59	45.97	46.04	46.05	46.01	45.99	45.88	46.00		

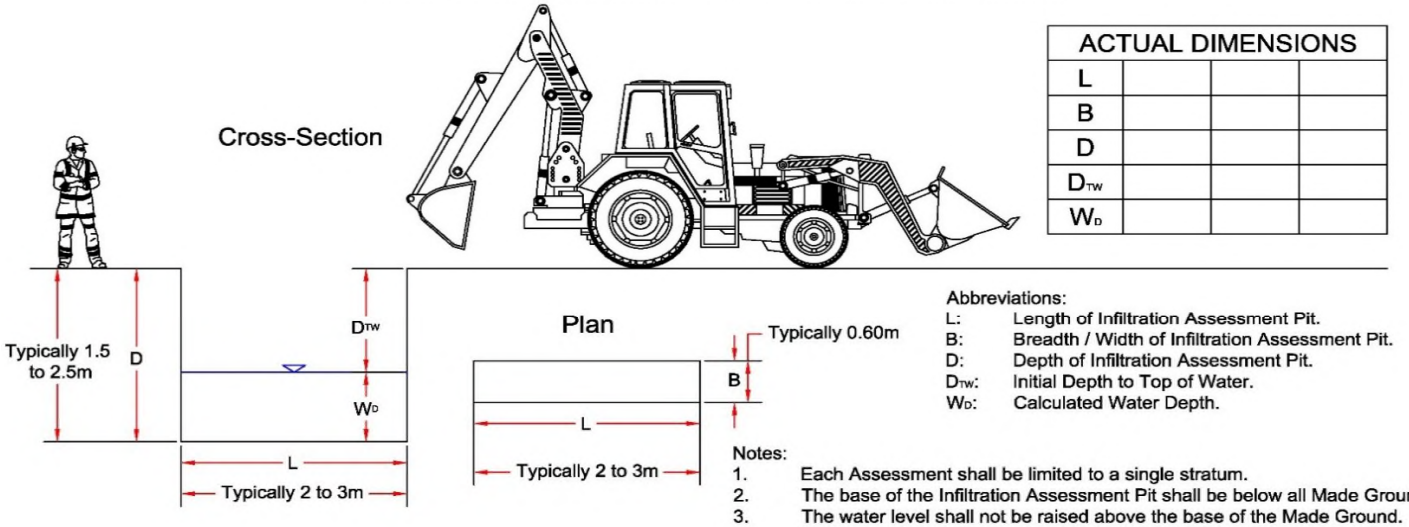
Infiltration Datasheet

1 DAY INFILTRATION ASSESSMENT - AIDE MEMOIR

Site: Gould Street
Client: Crowning Development Limited
Test Location WS701 **Date of start** 18/01/2022 **Date at end** 18/01/2022

ANTICIPATED GROUND PROFILE FROM DESK STUDY	ACTUAL GROUND PROFILE FROM EXCAVATION	
GROUND LEVEL	GROUND LEVEL	
	0.00-0.70	Made Ground as: sandy GRAVEL onto sandy gravelly CLAY.
	0.70-5.45	Glacial Till as: Stiff sandy slightly gravelly CLAY.
BASE OF PIT	Response zone	2.00-4.00m bgl

INFILTRATION ASSESSMENT PIT TYPICAL DIMENSIONS



ACTUAL DIMENSIONS			
L			
B			
D			
D_{TW}			
W_D			

Abbreviations:
L: Length of Infiltration Assessment Pit.
B: Breadth / Width of Infiltration Assessment Pit.
D: Depth of Infiltration Assessment Pit.
D_{TW}: Initial Depth to Top of Water.
W_D: Calculated Water Depth.

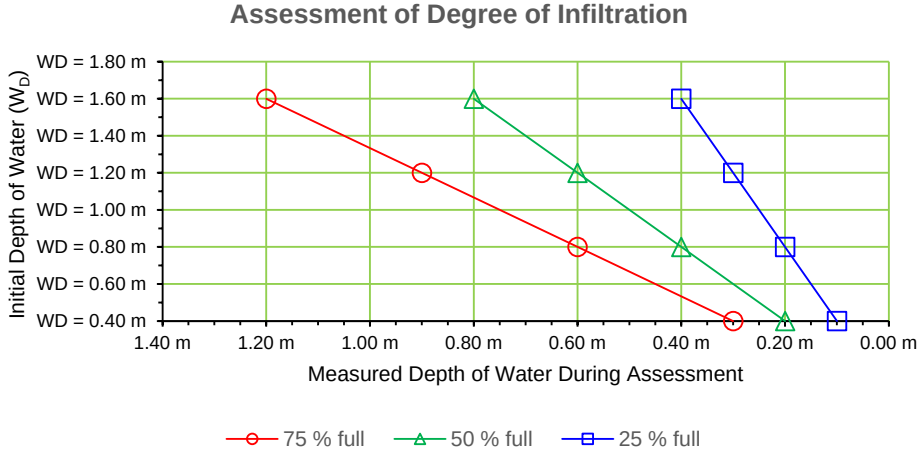
Calculated Water Depth (W_D) = D - D_{TW}

Maximum Fill Volume (V_W) = W_D x B x L

Corrected Water Volume (V_{WC}) = V_W x Gravel Porosity (P_I)

Notes:
1. Each Assessment shall be limited to a single stratum.
2. The base of the Infiltration Assessment Pit shall be below all Made Ground,
3. The water level shall not be raised above the base of the Made Ground.
4. The base of the Infiltration Assessment Pit shall be at least 1m into the stratum which is to be assessed.
5. The base of the Infiltration Assessment Pit shall be above the Water Table.
6. Minimum target depth of water of 1.0m.
7. Where any of the above conditions cannot be met, it shall be reported immediately to the Project Manager for additional guidance before the test is commenced.

Infiltration	RUN 1		RUN 2		RUN 3	
	W_D		W_D		W_D	
	W_{D1}	D_{TW1}	W_{D2}	D_{TW2}	W_{D3}	D_{TW3}
75% full	2.535	1.465				
25% full	0.845	3.155				



SITE OBSERVATIONS - VOLUME LOSS			
Test Run	Infiltration Records up to 6 Hours		Comments
1	<25%		Unlikely without significant attenuation
	<75%		Requires additional BRE DG365 testing
	>75%		Refer to results of Run 2
2	<25%		Unlikely without significant attenuation
	<75%		Requires additional BRE DG365 testing
	>75%		Refer to results of Run 3
3	<25%		Unlikely without significant attenuation
	<75%		Requires additional BRE DG365 testing
	>75%		Indicative Infiltration Rate achieved.

1 DAY INFILTRATION ASSESSMENT - WORKSHEET

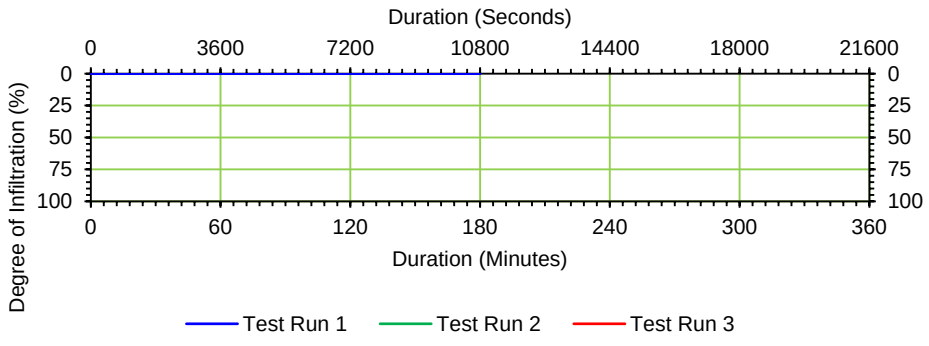
Site: Gould Street
Client: Crowning Development Limited
Test Location WS701 **Date of start** 18/01/2022 **Date at end** 18/01/2022

Test Run 1		Test Run 2		Test Run 3	
Pit Dimensions (m)		**Pit Dimensions (m)**		**Pit Dimensions (m)**	
Trial Pit Length (L)	0.050m	Trial Pit Length (L)		Trial Pit Length (L)	
Trial Pit Breadth / Width (B)	0.050m	Trial Pit Breadth / Width (B)		Trial Pit Breadth / Width (B)	
Effective Depth (D)	3.700m	Effective Depth (D)		Effective Depth (D)	
Time at Start of Filling	12.55	Time at Start of Filling		Time at Start of Filling	
Time at End of Filling	13.00	Time at End of Filling		Time at End of Filling	
Depth from Surface to Water (D_{TW})	0.320m	Depth below Surface to Water (D_{TW})		Depth below Surface to Water (D_{TW})	
Water Depth (W_D)	3.380m	Water Depth (W_D)	-	Water Depth (W_D)	-
Maximum Fill Volume (V_W)	0.008m³	Maximum Fill Volume (V_W)	-	Maximum Fill Volume (V_W)	-
Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit		Gravel used to backfill Test Pit	
Porosity of Gravel Backfill (P_t)	0.400	Porosity of Gravel Backfill (P_t)		Porosity of Gravel Backfill (P_t)	
Corrected Water Volume (V_{WC})	0.003m³	Corrected Water Volume (V_{WC})	-	Corrected Water Volume (V_{WC})	-

Time to soakaway

Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	13.000	0.320	0								
1	13.050	0.320	300								
1	13.100	0.320	600								
1	13.200	0.320	1200								
1	13.300	0.320	1800								
1	13.400	0.320	2400								
1	13.500	0.320	3000								
1	14.000	0.320	3600								
1	15.000	0.320	7200								
1	16.000	0.320	10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								
			10800								

25% water loss (75% full)			1.165m	**25% water loss (75% full)**			-	**25% water loss (75% full)**			-
50% water loss (50% full)			2.010m	**50% water loss (50% full)**			-	**50% water loss (50% full)**			-
75% water loss (25% full)			2.855m	**75% water loss (25% full)**			-	**75% water loss (25% full)**			-
25% time (seconds)			-	**25% time (seconds)**			-	**25% time (seconds)**			-
75% time (seconds)			-	**75% time (seconds)**			-	**75% time (seconds)**			-
Vp 75-25			0.002m³	**Vp 75-25**			-	**Vp 75-25**			-
ap 50 (Actual area from test)			0.341m³	**ap 50 (Actual area from test)**			-	**ap 50 (Actual area from test)**			-
tp 75 - 25				**tp 75 - 25**				**tp 75 - 25**			
Soil Infiltration Rate		-		**Soil Infiltration Rate**		-		**Soil Infiltration Rate**		-	



Form completed by		
Tested By	PRINT	Russell Sumner
	SIGN	Russell Sumner
	DATE	18/01/2022
Calculated By	PRINT	Russell Sumner
	SIGN	Russell Sumner
	DATE	18/01/2022
Checked by	PRINT	Danny Hope
	SIGN	Danny Hope
	DATE	02/02/2022

Appendix C Geotechnical Test Results and Geotechnical Plots

Geotechnical Laboratory Test 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

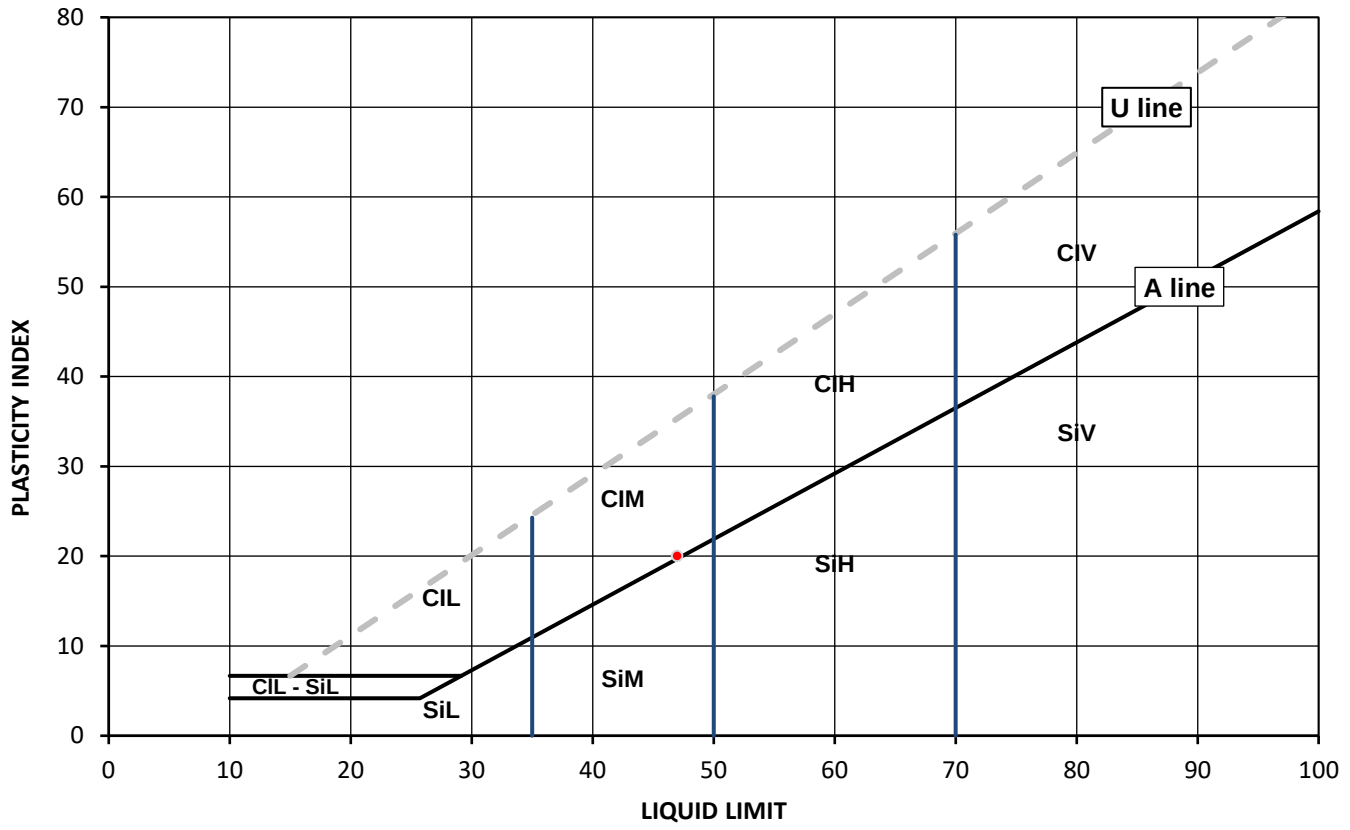
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128570	Depth Top [m]:	1.50
Hole No.:	MPBH702	Depth Base [m]:	1.95
Sample Reference:	2	Sample Type:	D
Sample Description:	Brownish grey 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
23	47	27	20	92



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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

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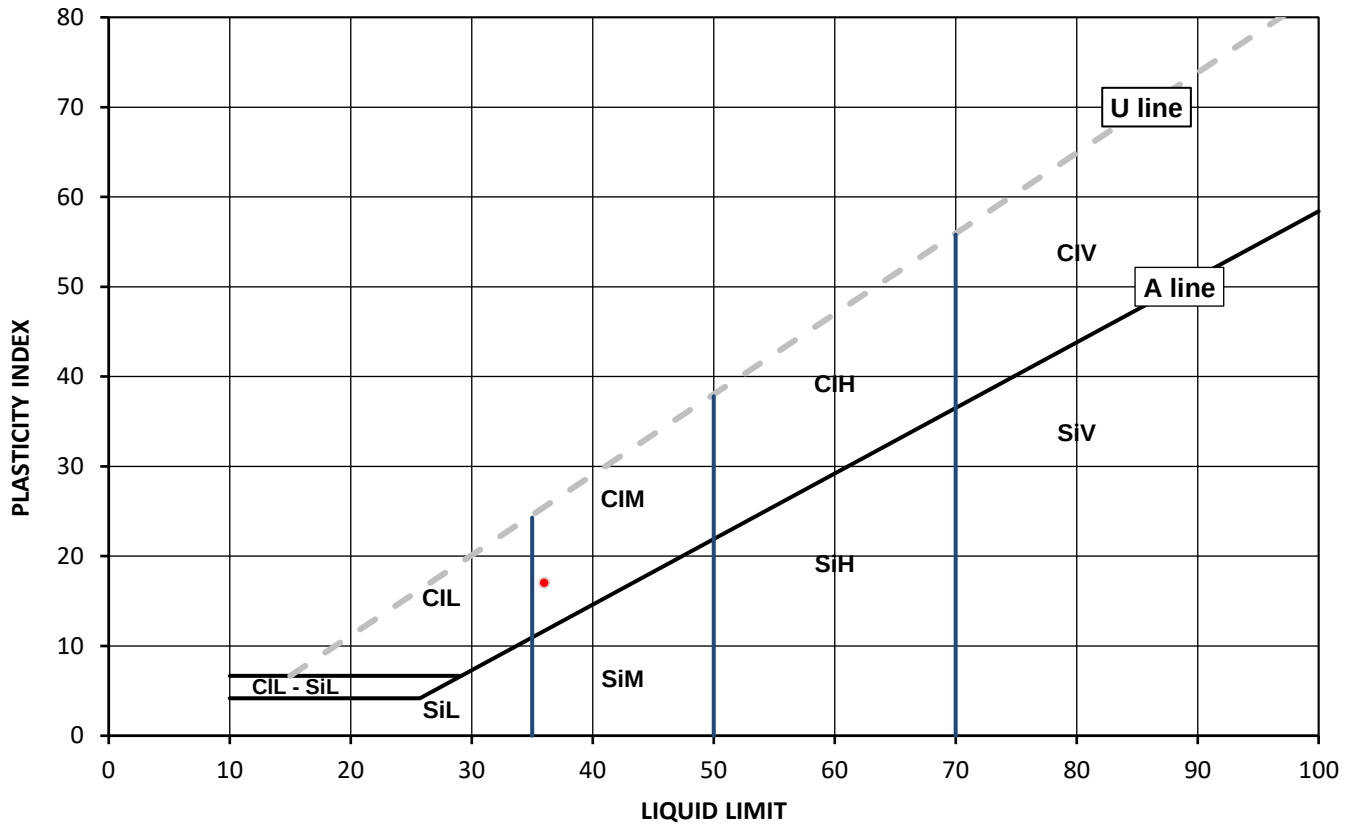
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128557	Depth Top [m]:	3.00
Hole No.:	MPBH704	Depth Base [m]:	3.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Dark brown slightly gravelly 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
16	36	19	17	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: Preliminary report 2

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Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

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Brackmills Industrial Estate
Northampton NN4 7EB

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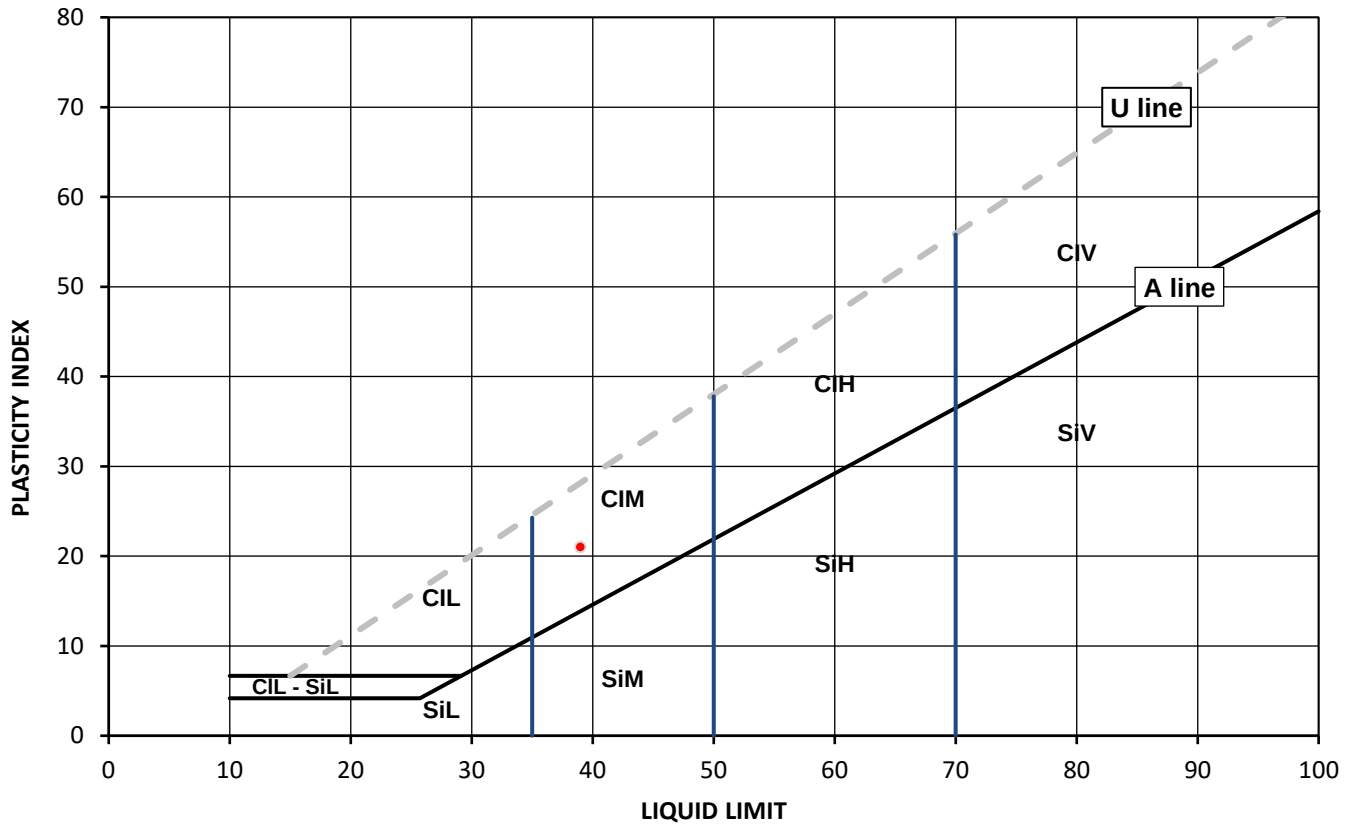
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128559	Depth Top [m]:	5.00
Hole No.:	MPBH709	Depth Base [m]:	5.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Brown slightly gravelly 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	39	18	21	90



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: Preliminary report 2

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Northampton NN4 7EB

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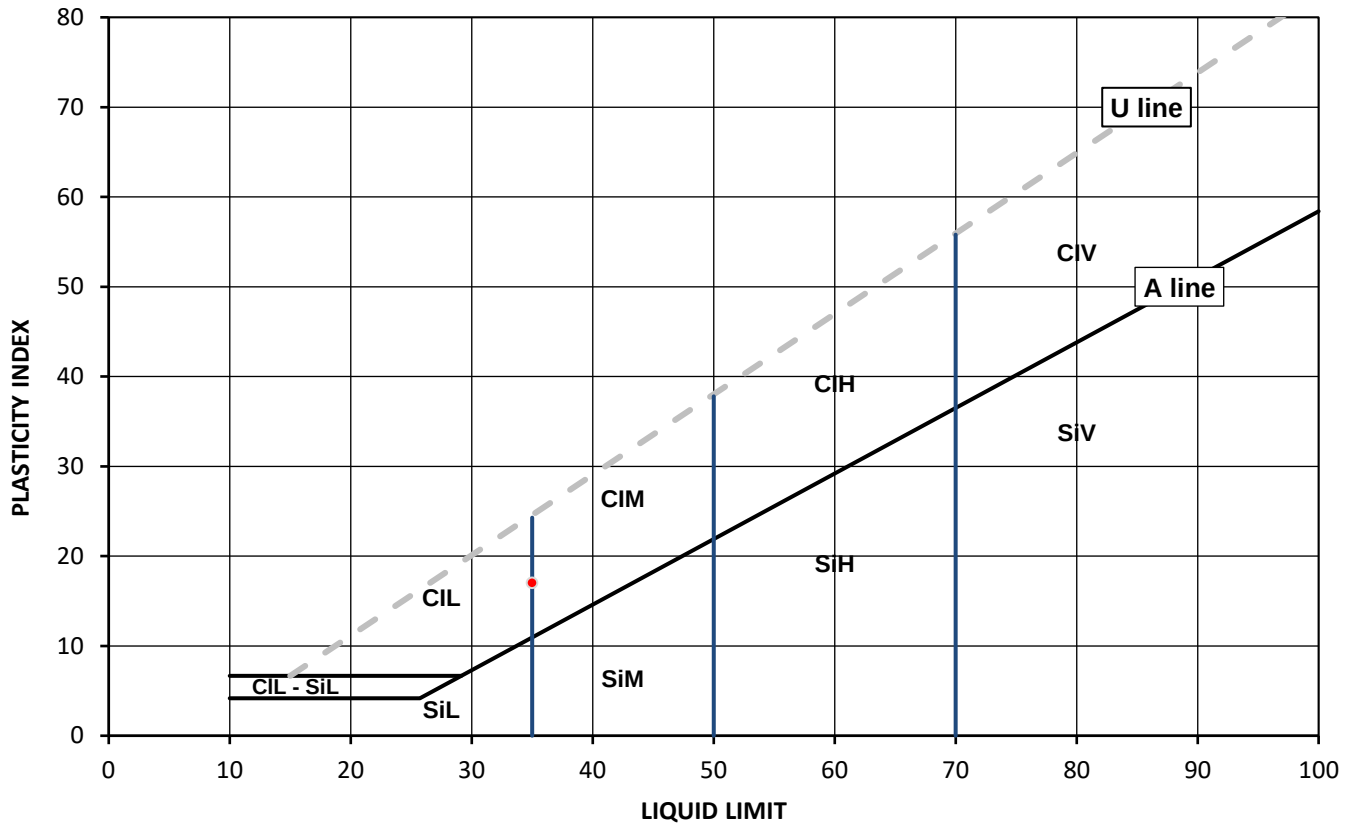
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128562	Depth Top [m]:	3.00
Hole No.:	MPBH715	Depth Base [m]:	3.45
Sample Reference:	7	Sample Type:	U
Sample Description:	Brown slightly gravelly 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
15	35	18	17	95



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: Preliminary report 2

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Date Reported: 19/01/2022

GF 236.12

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DETERMINATION OF LIQUID AND PLASTIC LIMITS

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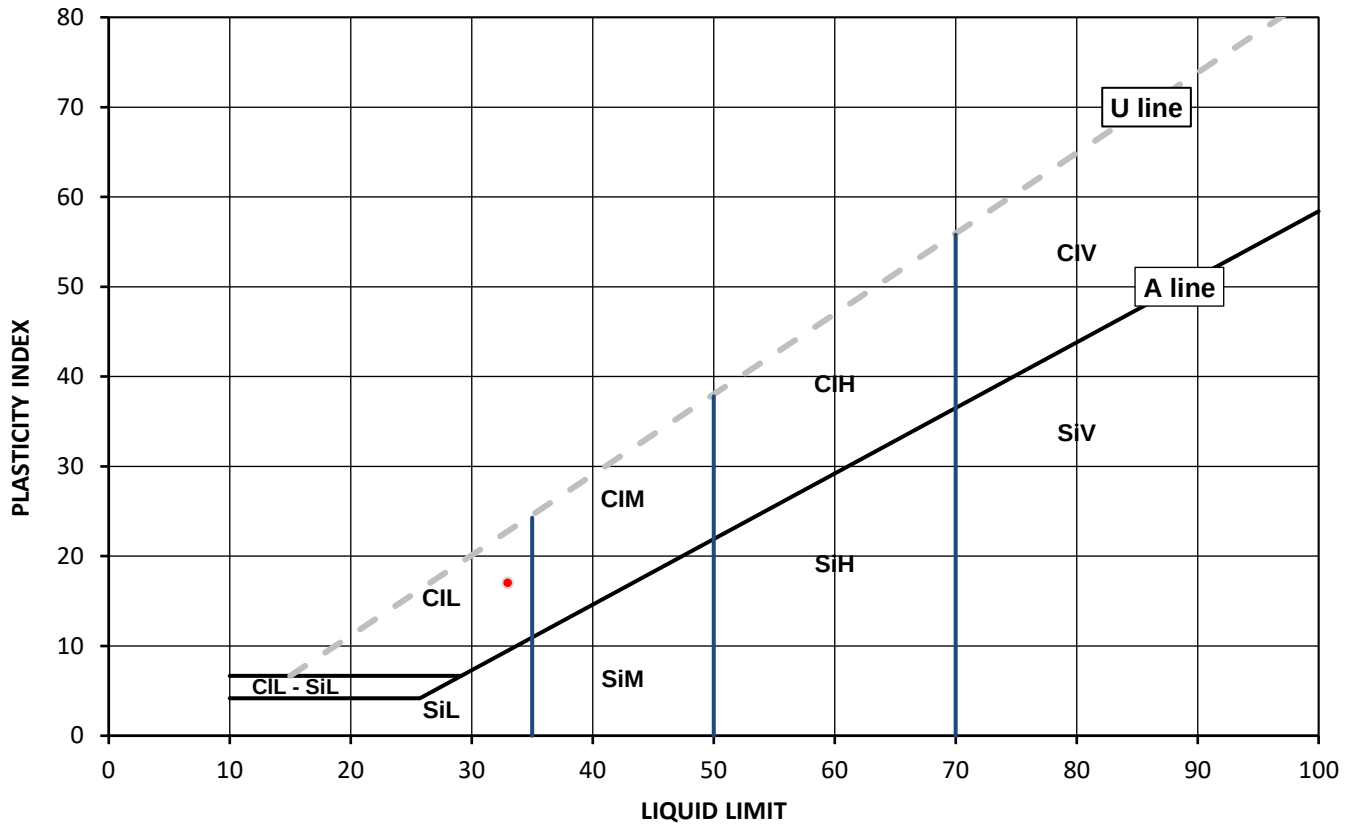
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128564	Depth Top [m]:	7.50
Hole No.:	MPBH715	Depth Base [m]:	7.95
Sample Reference:	16	Sample Type:	U
Sample Description:	Brown slightly gravelly very 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
16	33	16	17	90



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: Preliminary report 2

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Katarzyna Koziel
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for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

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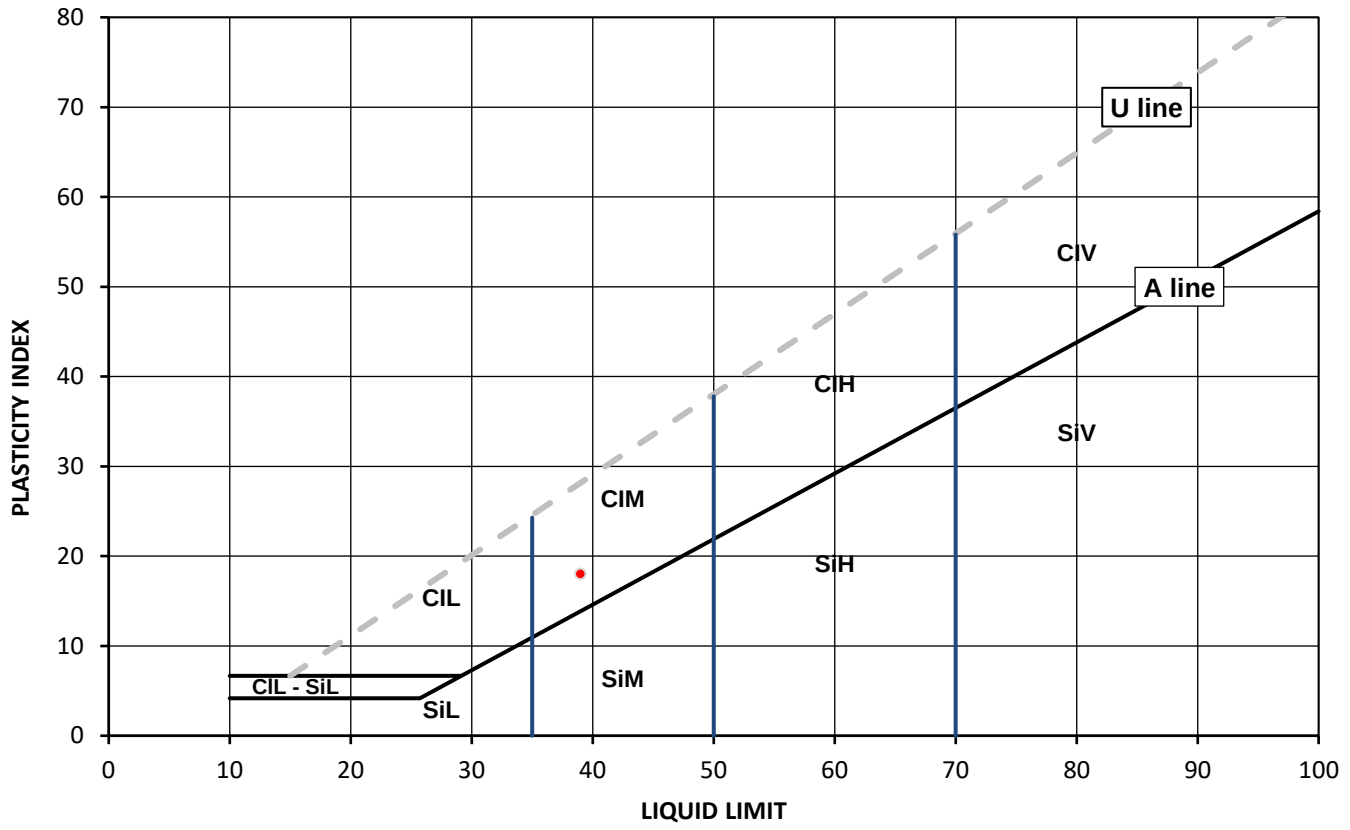
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128565	Depth Top [m]:	3.00
Hole No.:	MPBH713	Depth Base [m]:	3.45
Sample Reference:	8	Sample Type:	U
Sample Description:	Brown slightly gravelly 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
19	39	21	18	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: Preliminary report 2

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Katarzyna Koziel
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Date Reported: 19/01/2022

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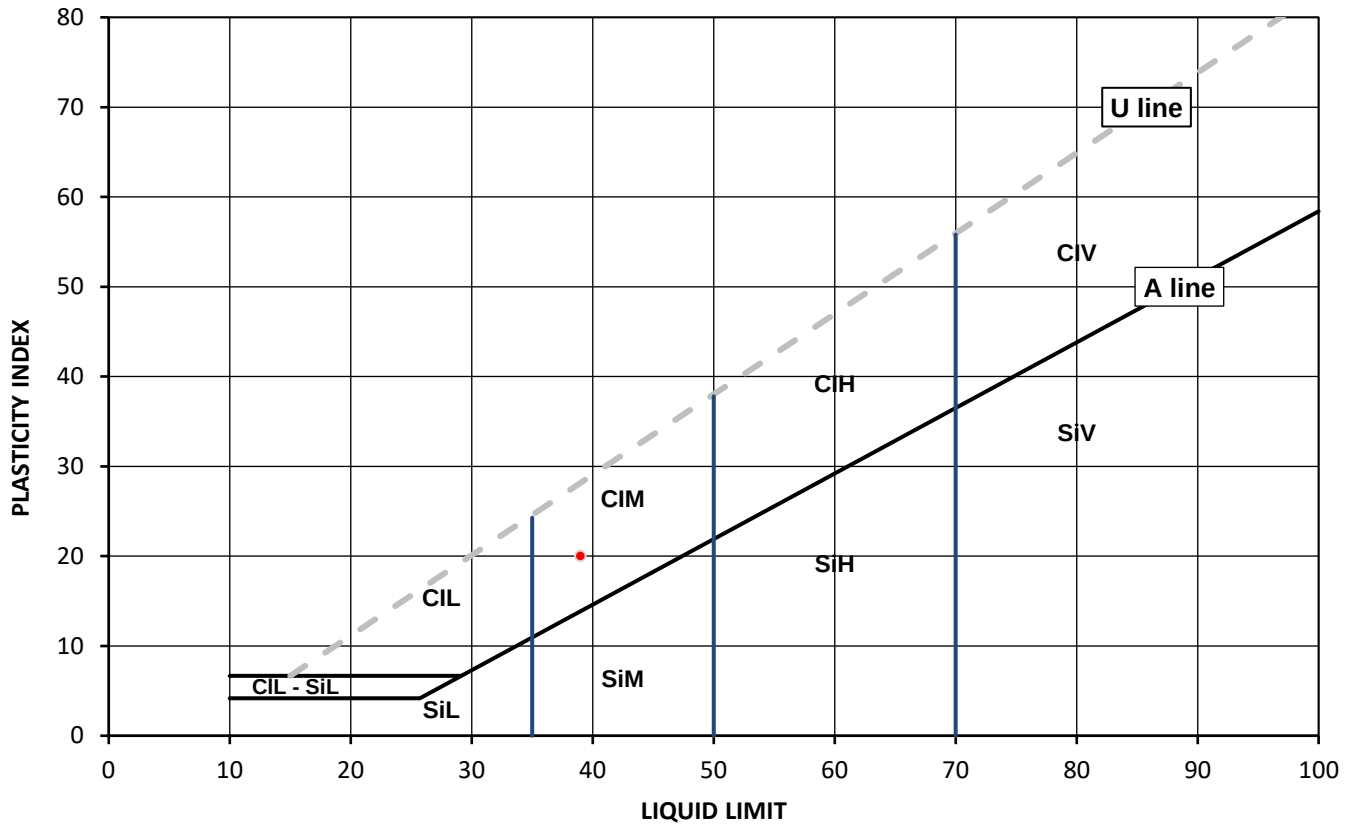
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128568	Depth Top [m]:	3.50
Hole No.:	MPBH703	Depth Base [m]:	3.95
Sample Reference:	16	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
15	39	19	20	93



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: Preliminary report 2

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Katarzyna Koziel
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Date Reported: 19/01/2022

GF 236.12

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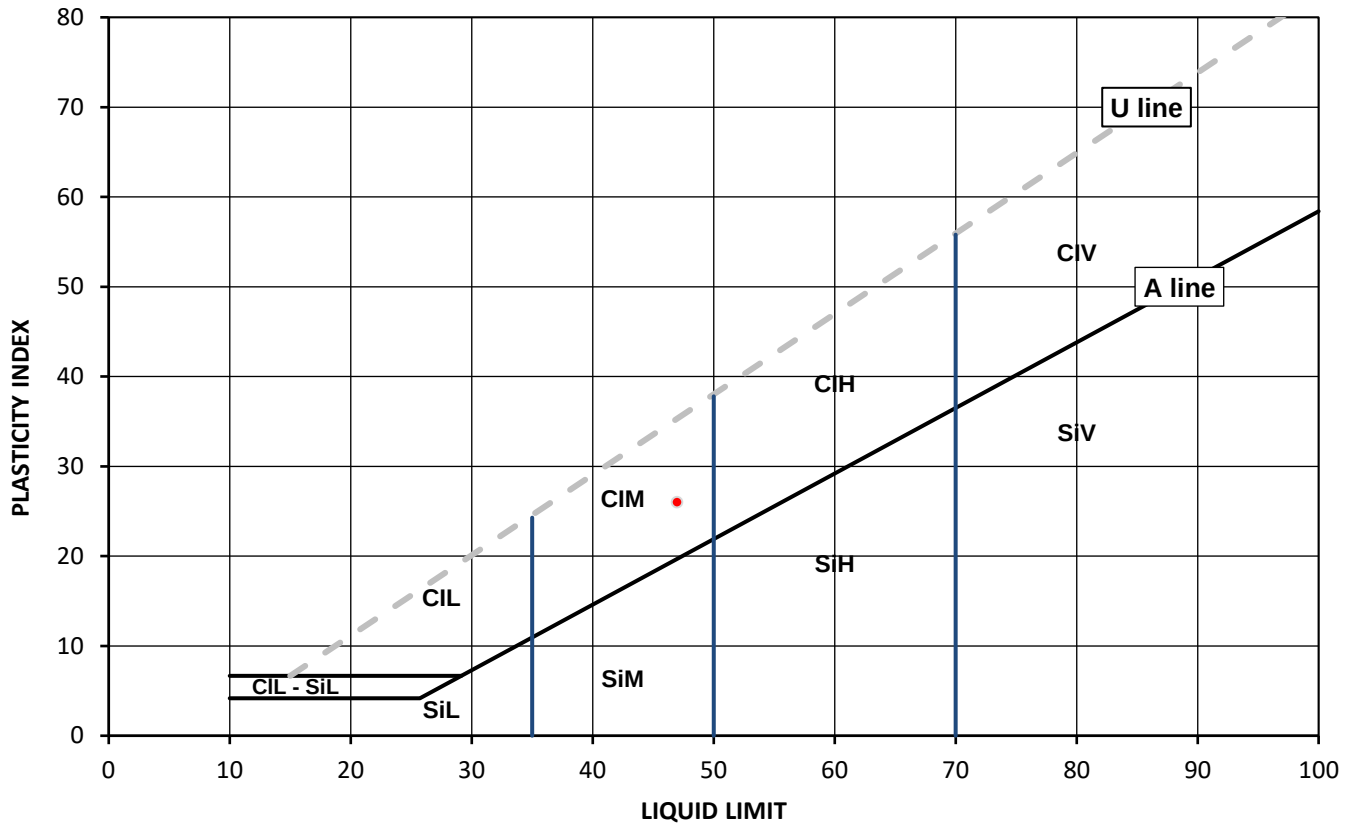
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128569	Depth Top [m]:	12.00
Hole No.:	MPBH703	Depth Base [m]:	12.45
Sample Reference:	13	Sample Type:	D
Sample Description:	Brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
22	47	21	26	100



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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

UKAS TESTING
4041

Environmental Science

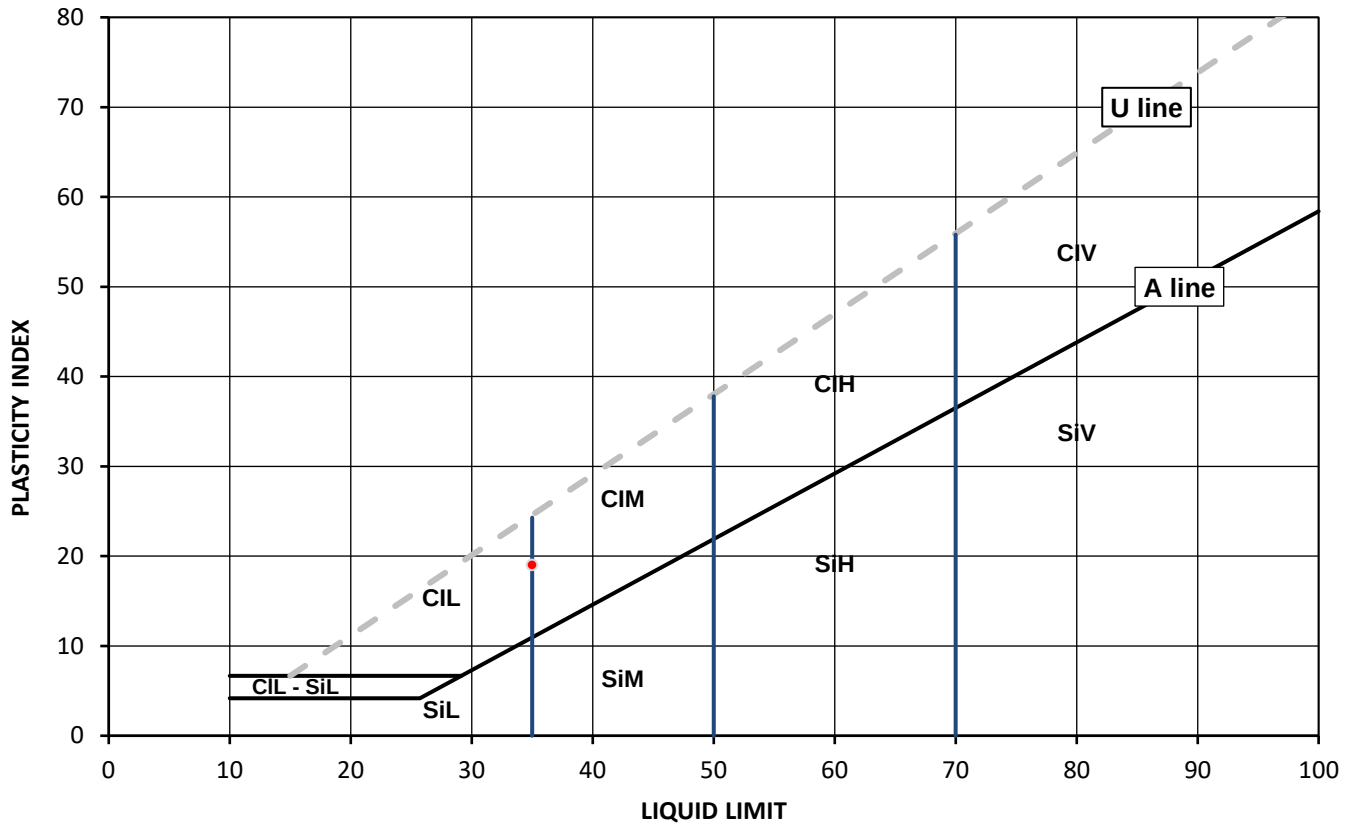
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128571	Depth Top [m]:	2.60
Hole No.:	MPBH702	Depth Base [m]:	3.00
Sample Reference:	11	Sample Type:	B
Sample Description:	Dark brown slightly gravelly sandy CLAY		
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
16	35	16	19	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

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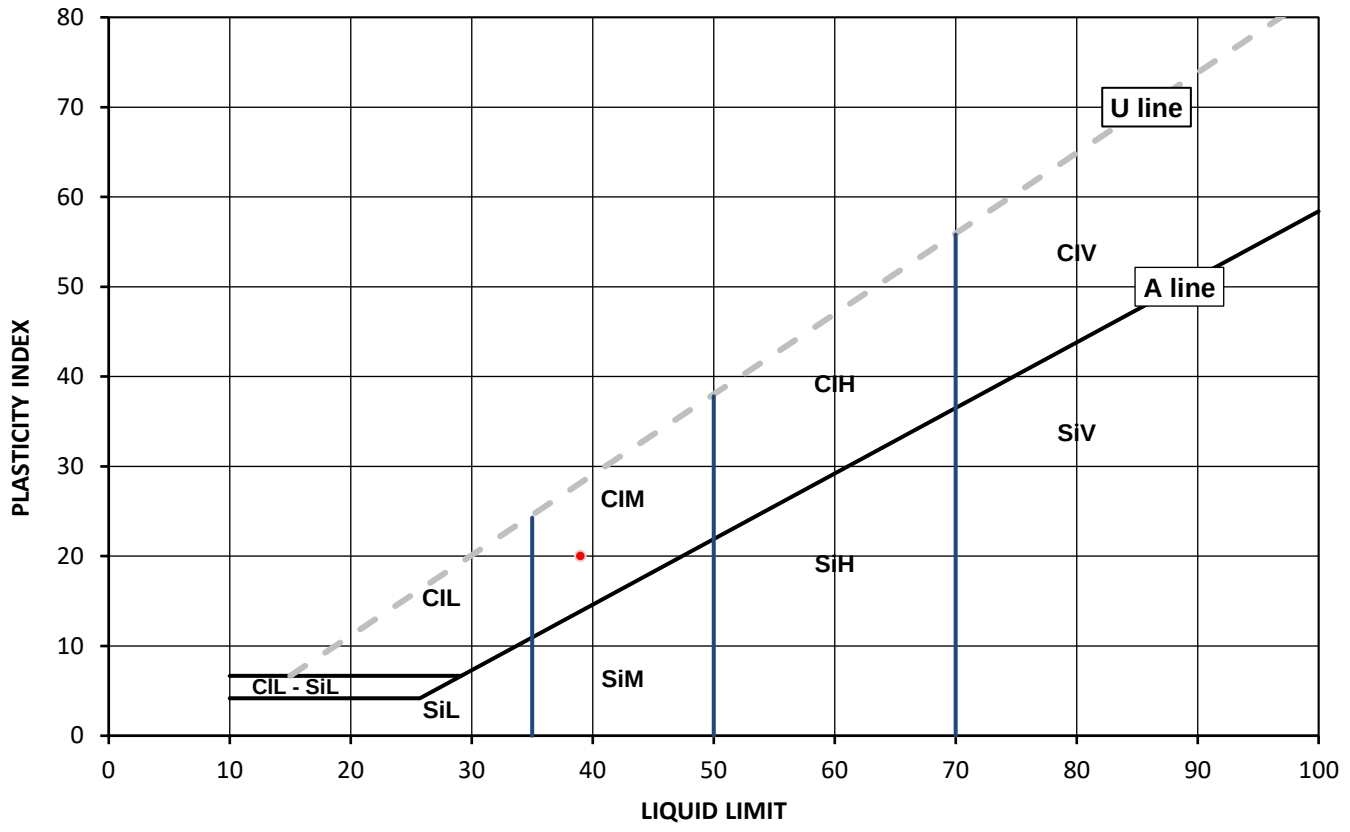
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128572	Depth Top [m]:	2.20
Hole No.:	MPBH705	Depth Base [m]:	2.20
Sample Reference:	3	Sample Type:	D
Sample Description:	Greyish brown slightly gravelly sandy CLAY		
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
11	39	19	20	98



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

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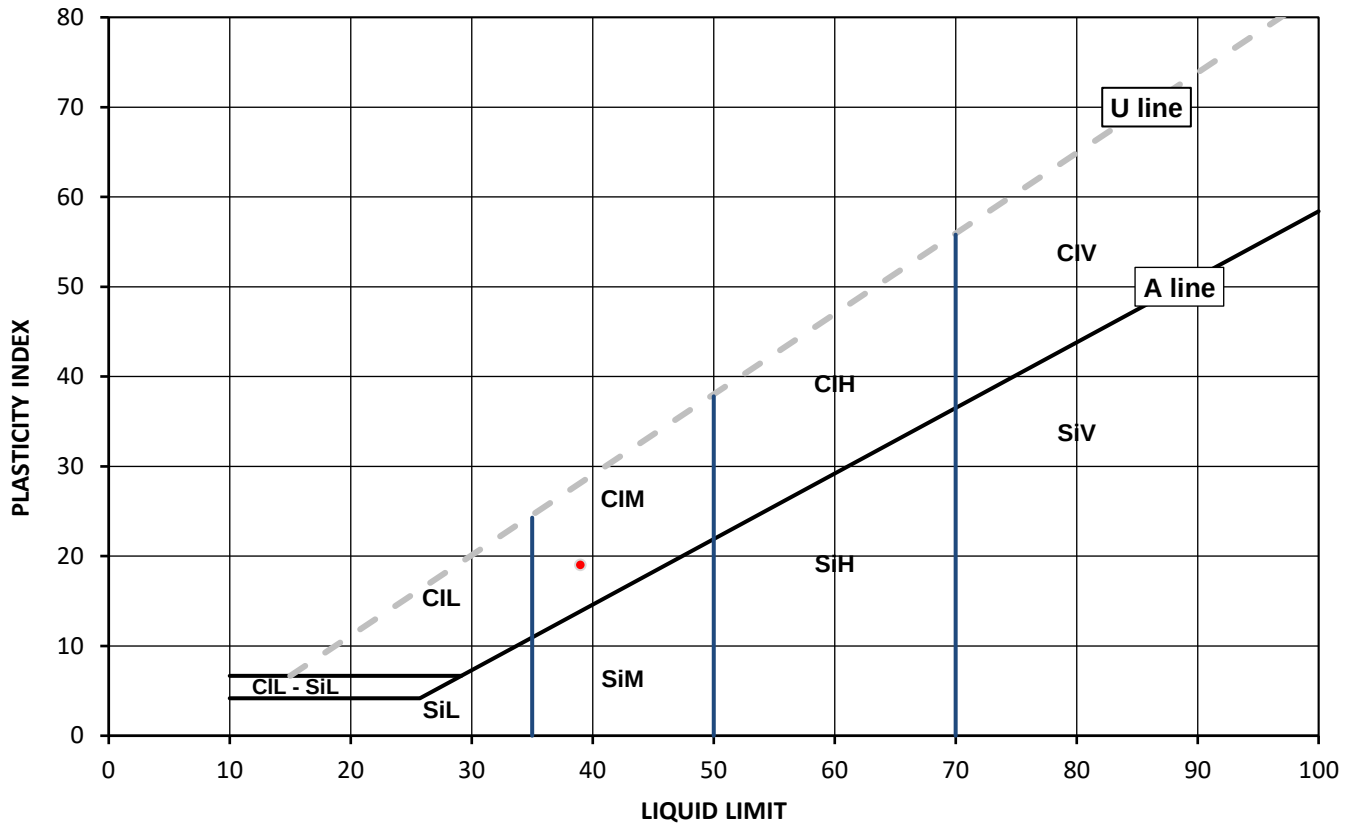
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128573	Depth Top [m]:	1.20
Hole No.:	MPBH704	Depth Base [m]:	1.65
Sample Reference:	2	Sample Type:	D
Sample Description:	Brown sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
19	39	20	19	100



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

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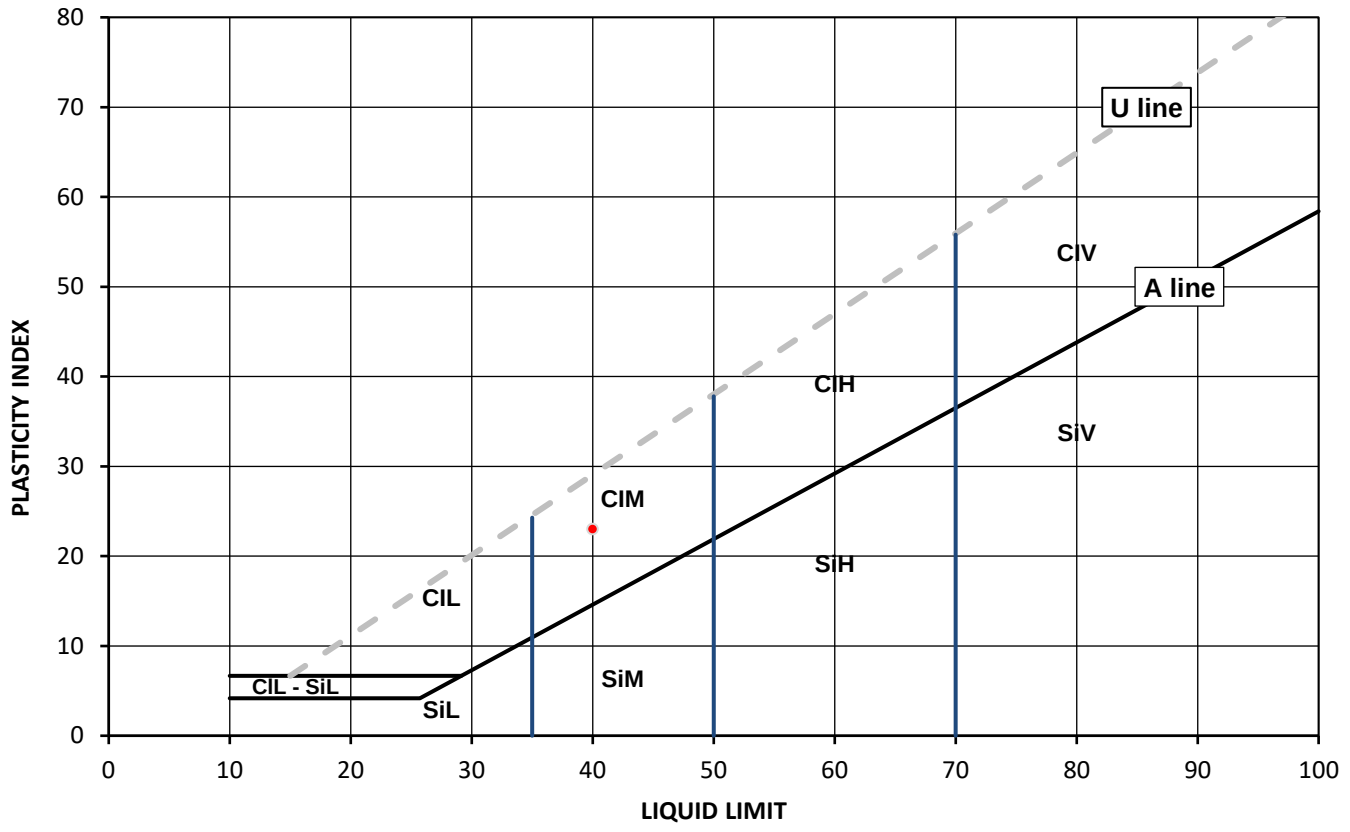
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		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128574	Depth Top [m]:	2.00
Hole No.:	MPBH704	Depth Base [m]:	2.45
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
19	40	17	23	96



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

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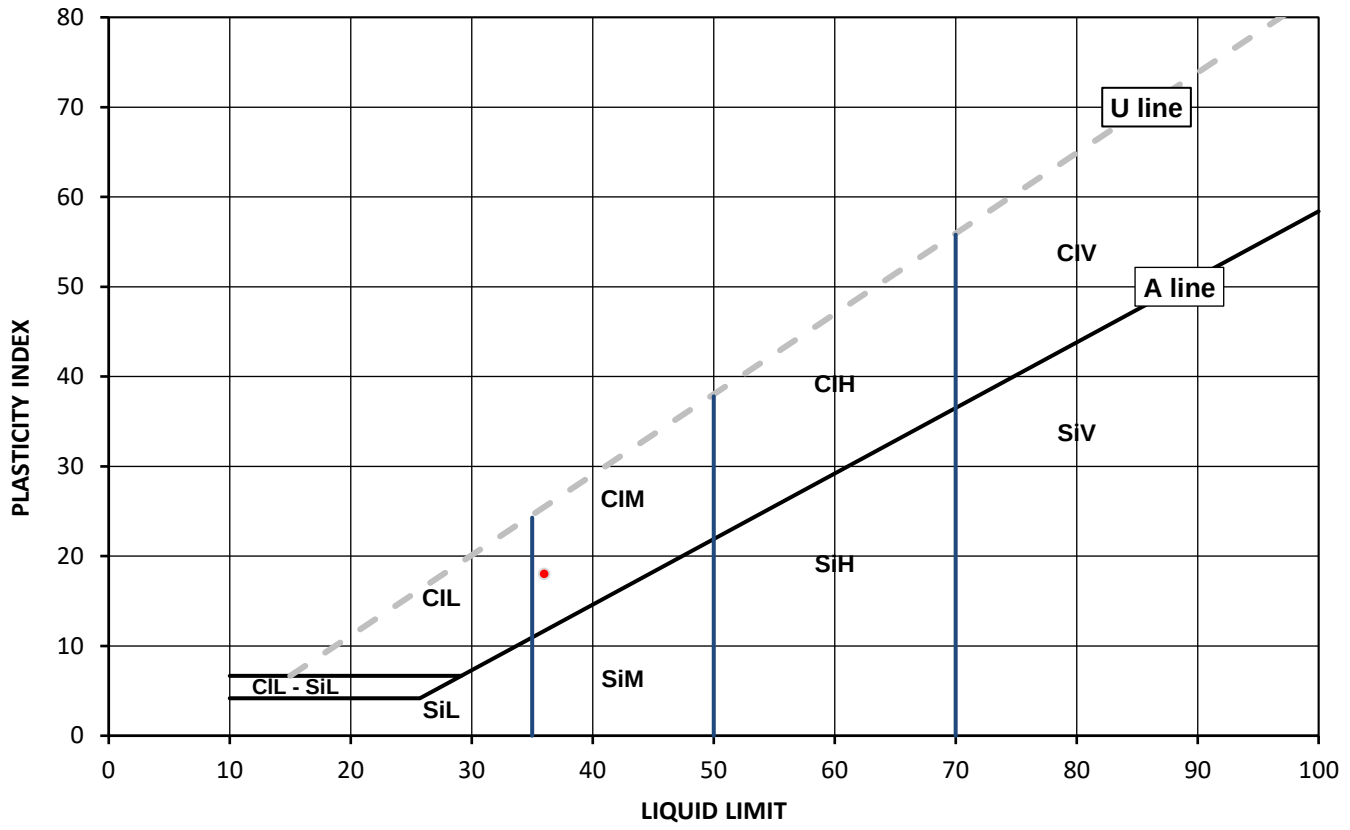
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128575	Depth Top [m]:	5.00
Hole No.:	MPBH711	Depth Base [m]:	5.45
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
15	36	18	18	95



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: Preliminary report 2

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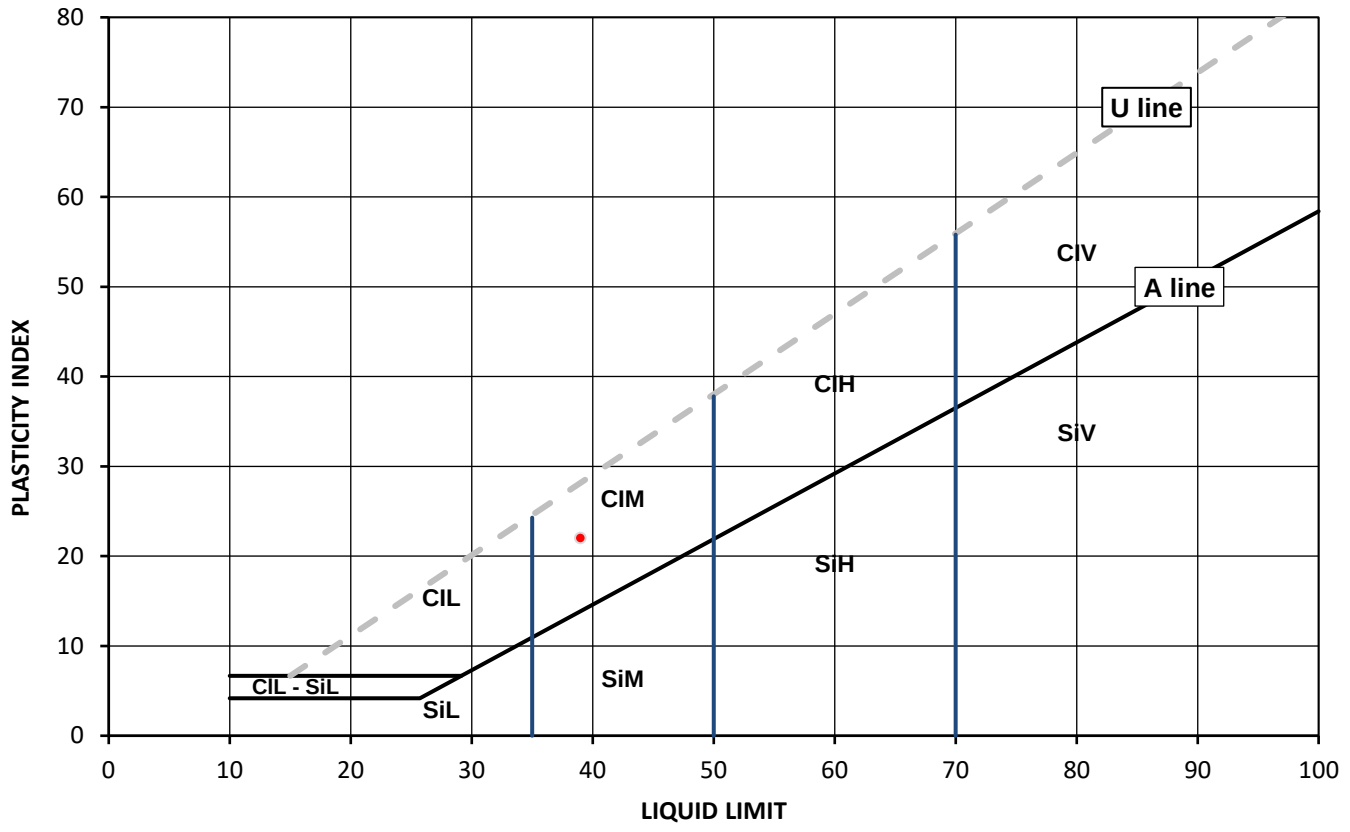
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		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128576	Depth Top [m]:	8.00
Hole No.:	MPBH711	Depth Base [m]:	8.45
Sample Reference:	10	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
17	39	17	22	97



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

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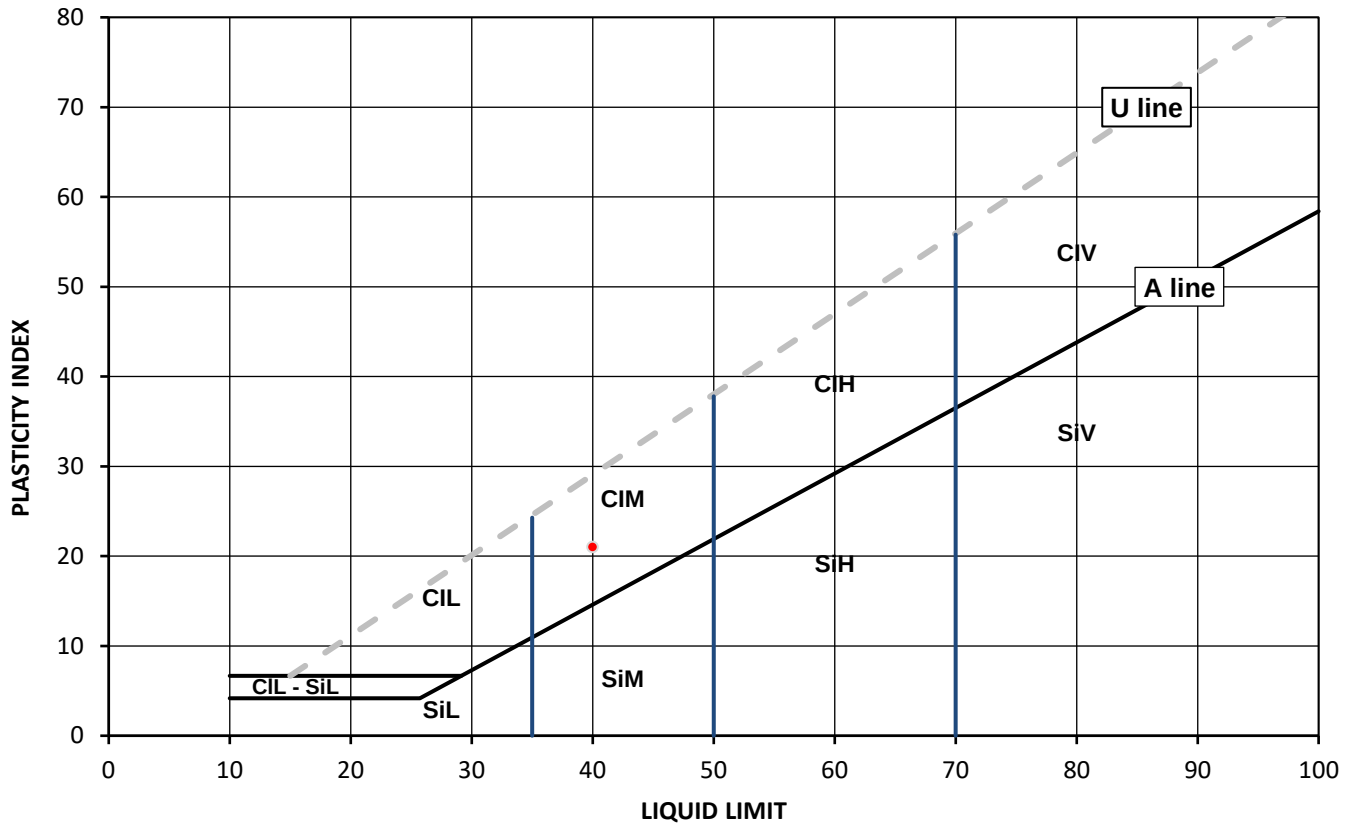
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		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128577	Depth Top [m]:	7.00
Hole No.:	MPBH713	Depth Base [m]:	7.45
Sample Reference:	18	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
19	40	19	21	94



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

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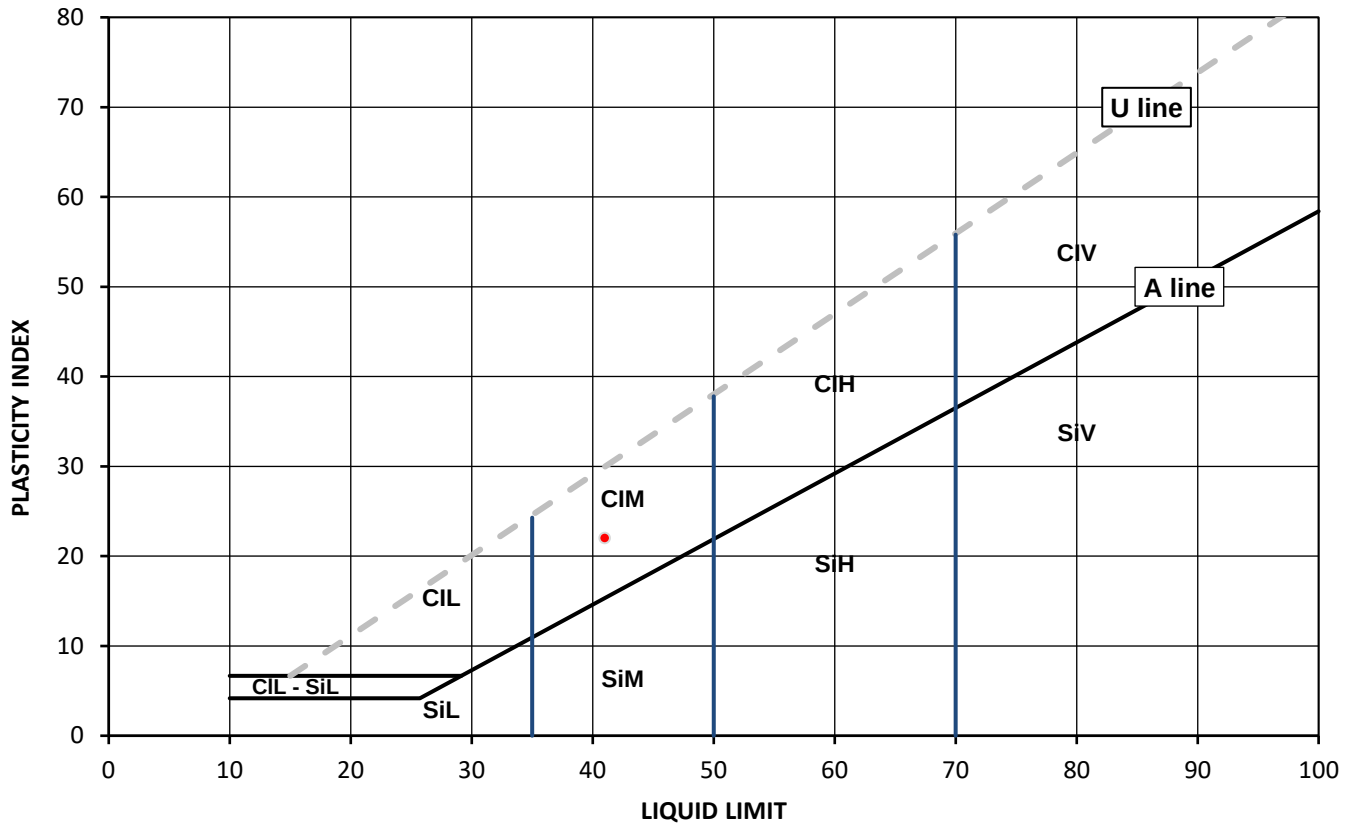
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128578	Depth Top [m]:	6.00
Hole No.:	MPBH707	Depth Base [m]:	6.45
Sample Reference:	8	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
19	41	19	22	97



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: Preliminary report 2

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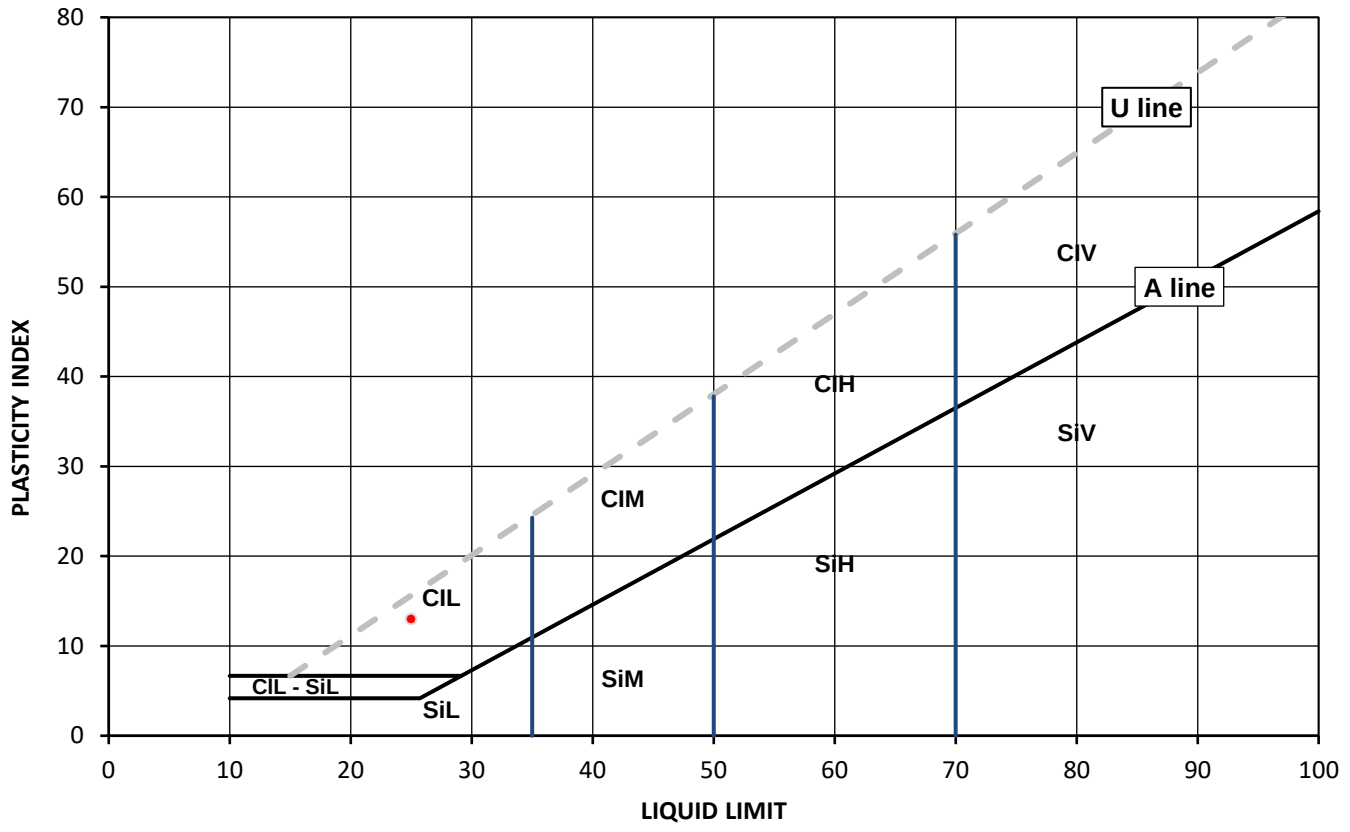
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		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128580	Depth Top [m]:	9.00
Hole No.:	MPBH715	Depth Base [m]:	9.45
Sample Reference:	18	Sample Type:	D
Sample Description:	Brown slightly gravelly clayey SAND		
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
9.2	25	12	13	89



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

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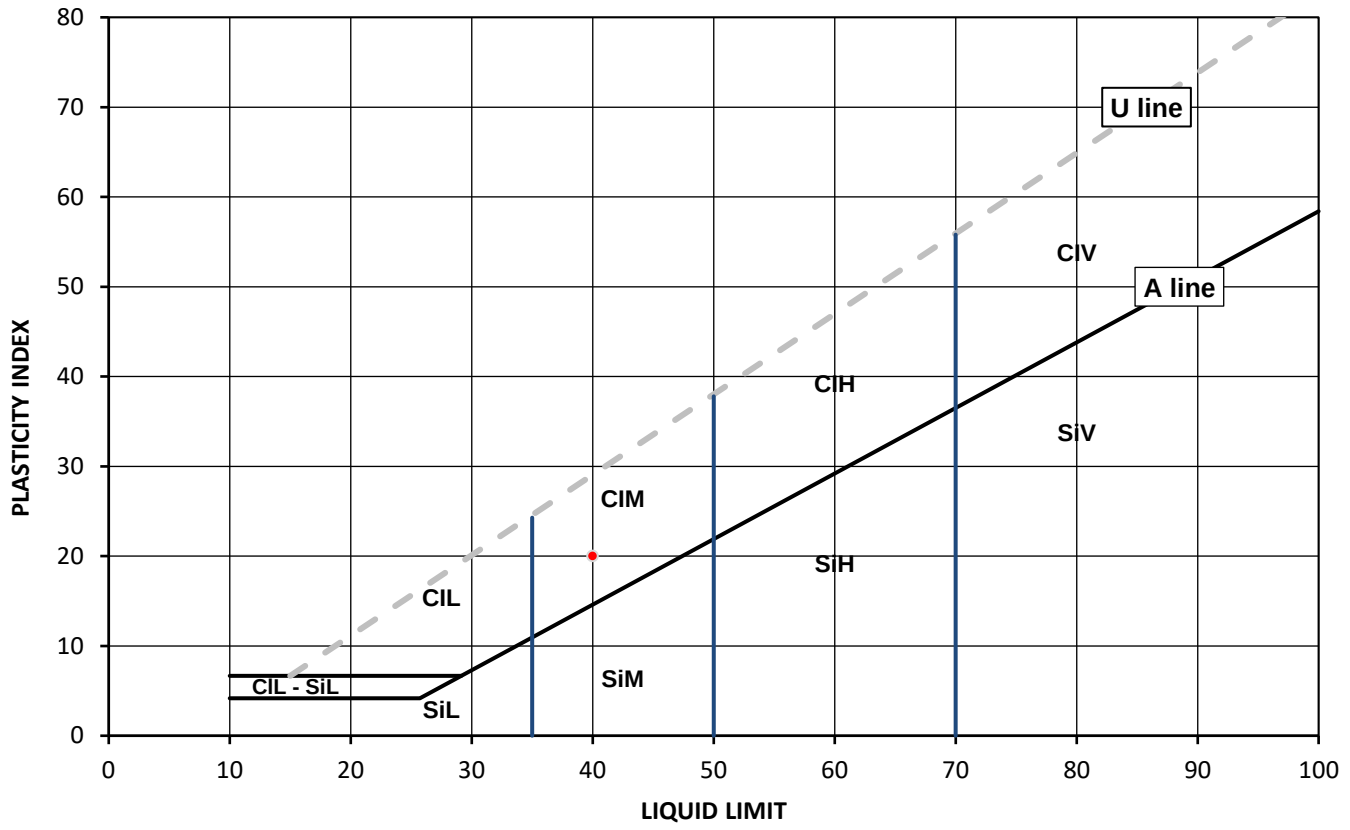
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128581	Depth Top [m]:	1.20
Hole No.:	WS701	Depth Base [m]:	1.65
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
17	40	20	20	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)

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for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

4041

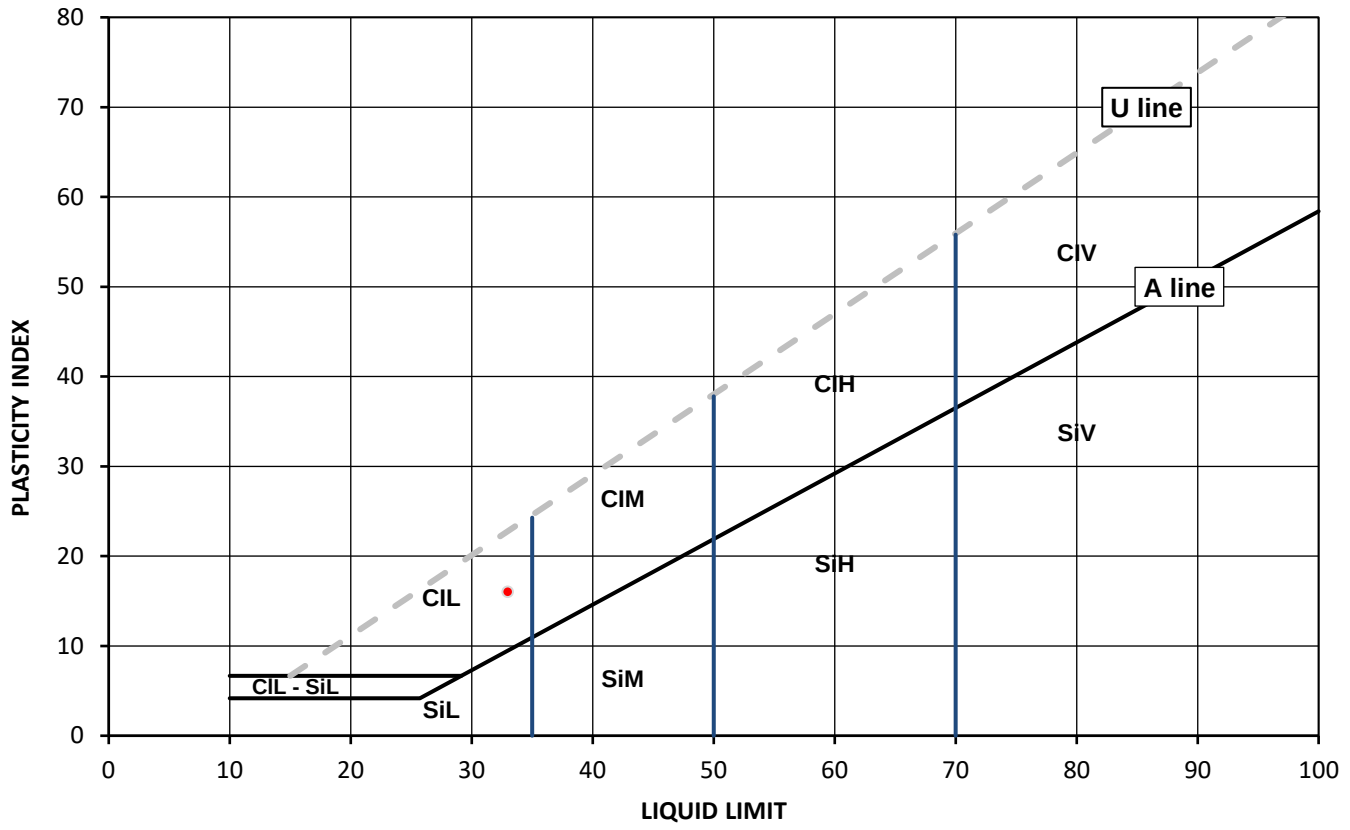
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128582	Depth Top [m]:	3.00
Hole No.:	WS702	Depth Base [m]:	3.45
Sample Reference:	9	Sample Type:	D
Sample Description:	Brown slightly gravelly very 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
15	33	17	16	94



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: Preliminary report 2

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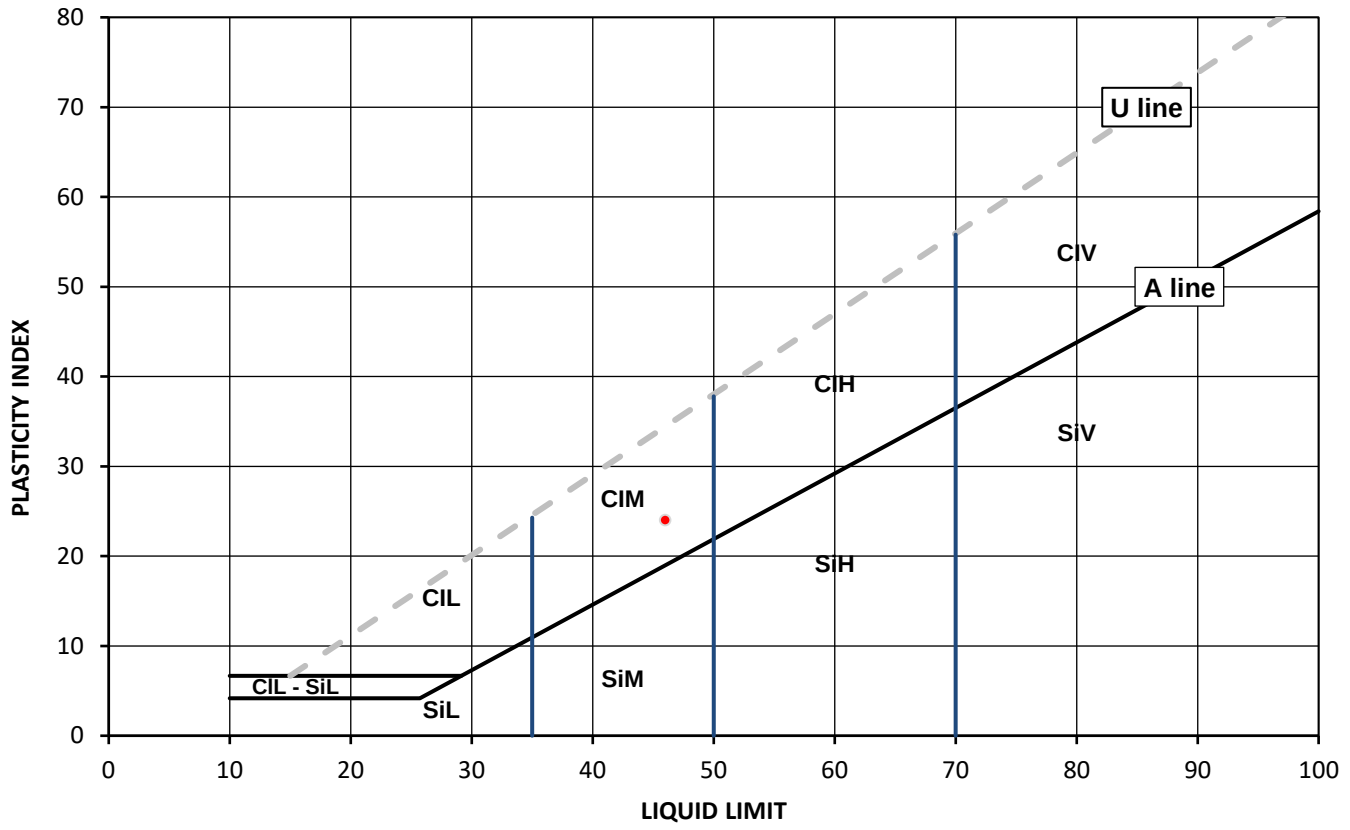
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128583	Depth Top [m]:	1.75
Hole No.:	WS703	Depth Base [m]:	1.75
Sample Reference:	3	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
27	46	22	24	84



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

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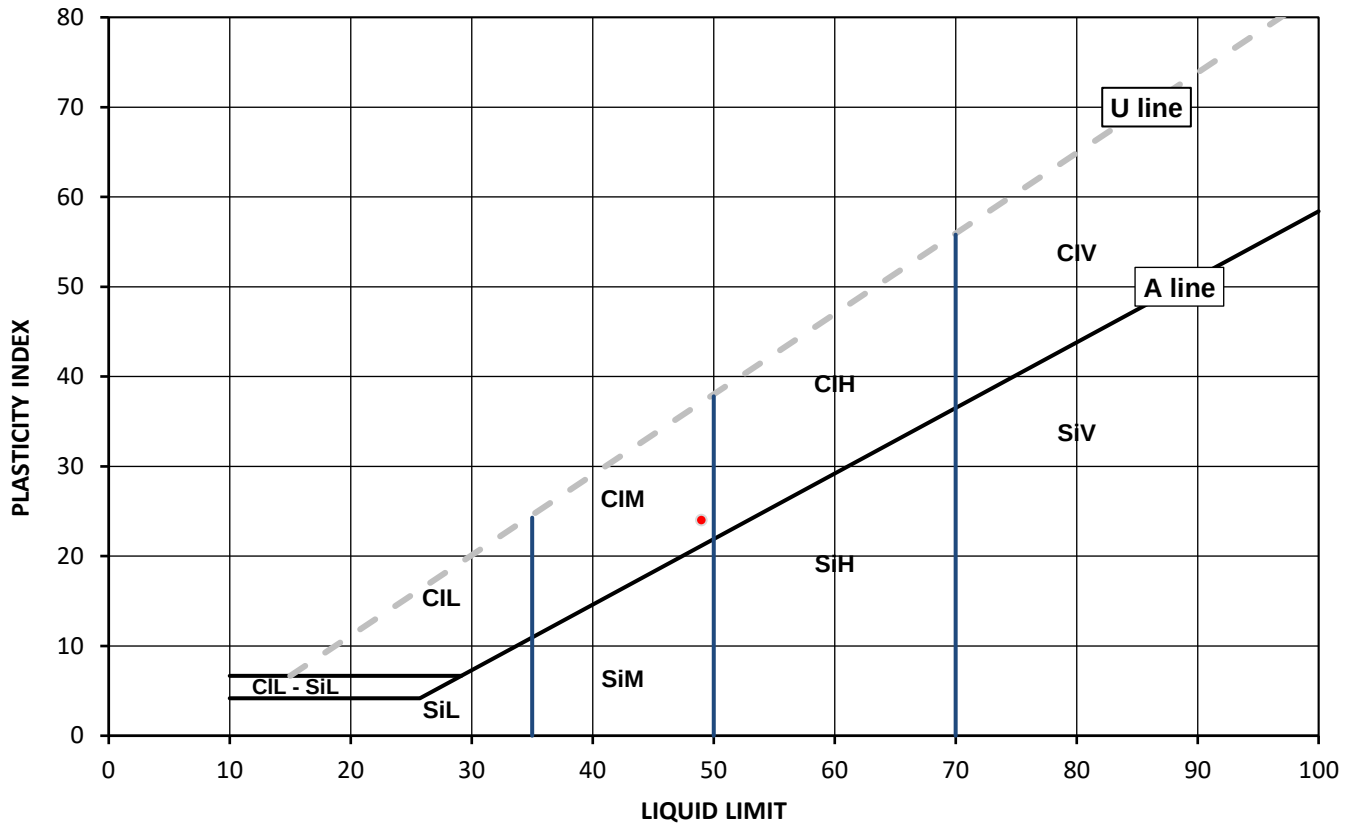
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128584	Depth Top [m]:	1.20
Hole No.:	WS202	Depth Base [m]:	1.65
Sample Reference:	4	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
26	49	25	24	70



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

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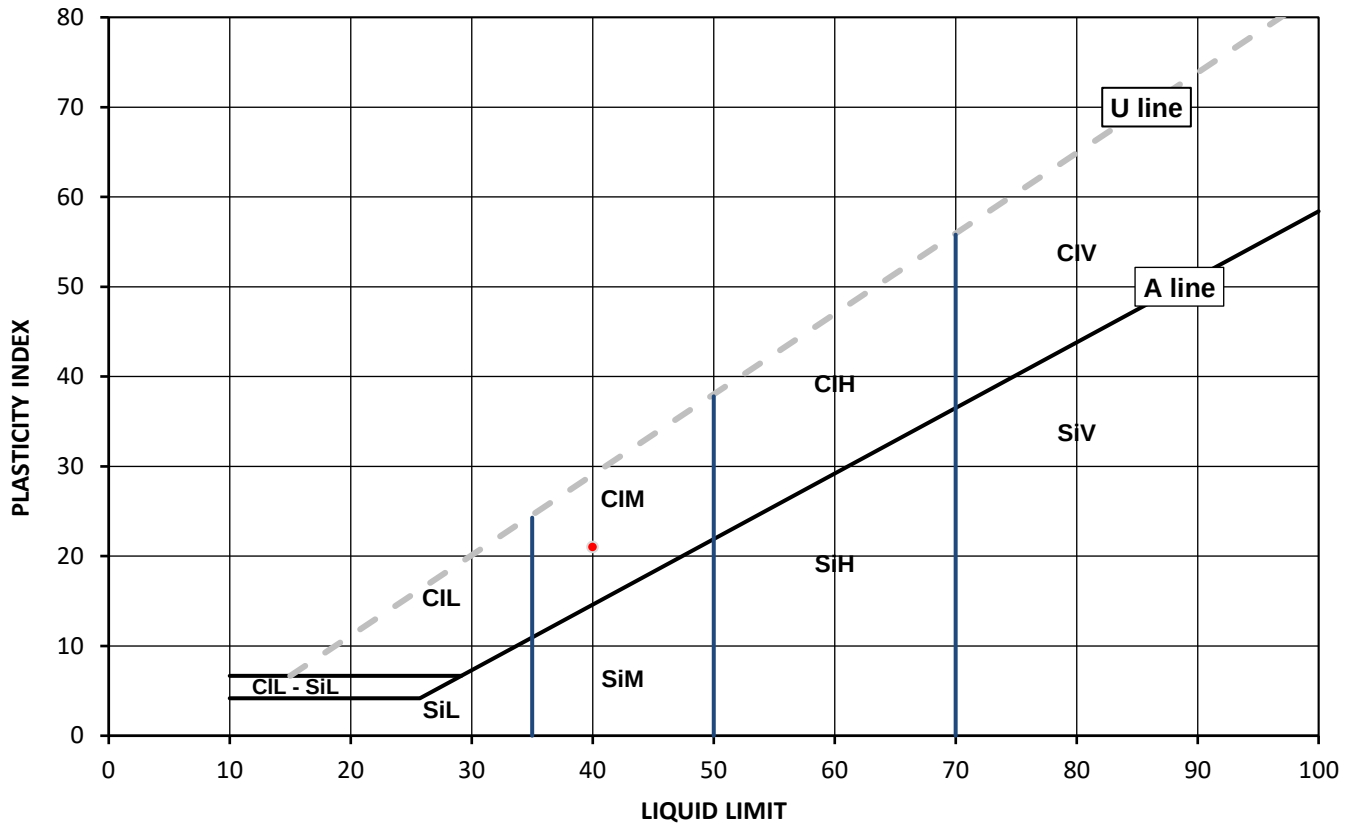
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128585	Depth Top [m]:	4.90
Hole No.:	MPBH709	Depth Base [m]:	4.90
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
17	40	19	21	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

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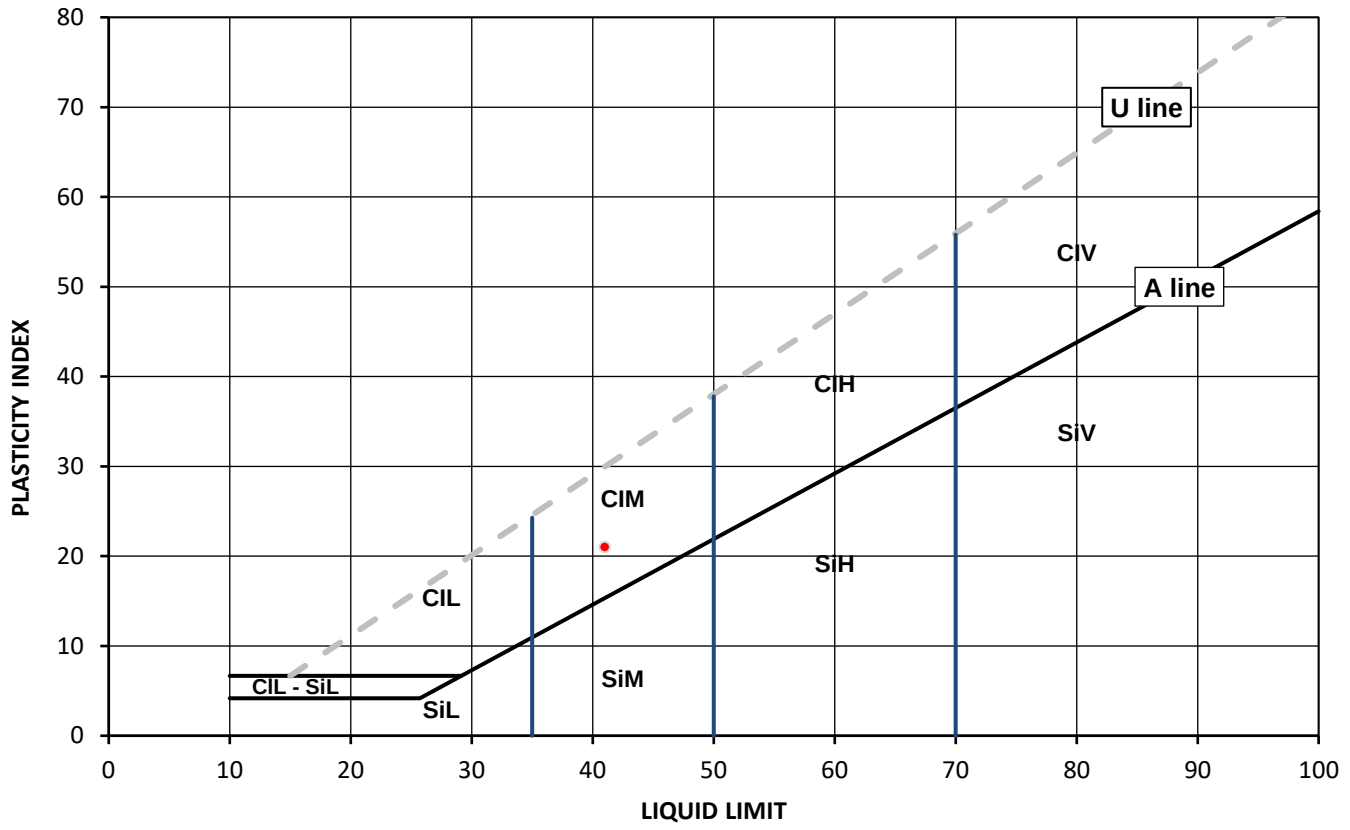
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128586	Depth Top [m]:	1.50
Hole No.:	MPBH701	Depth Base [m]:	2.00
Sample Reference:	3	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy CLAY		
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
19	41	20	21	98



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: Preliminary report 2

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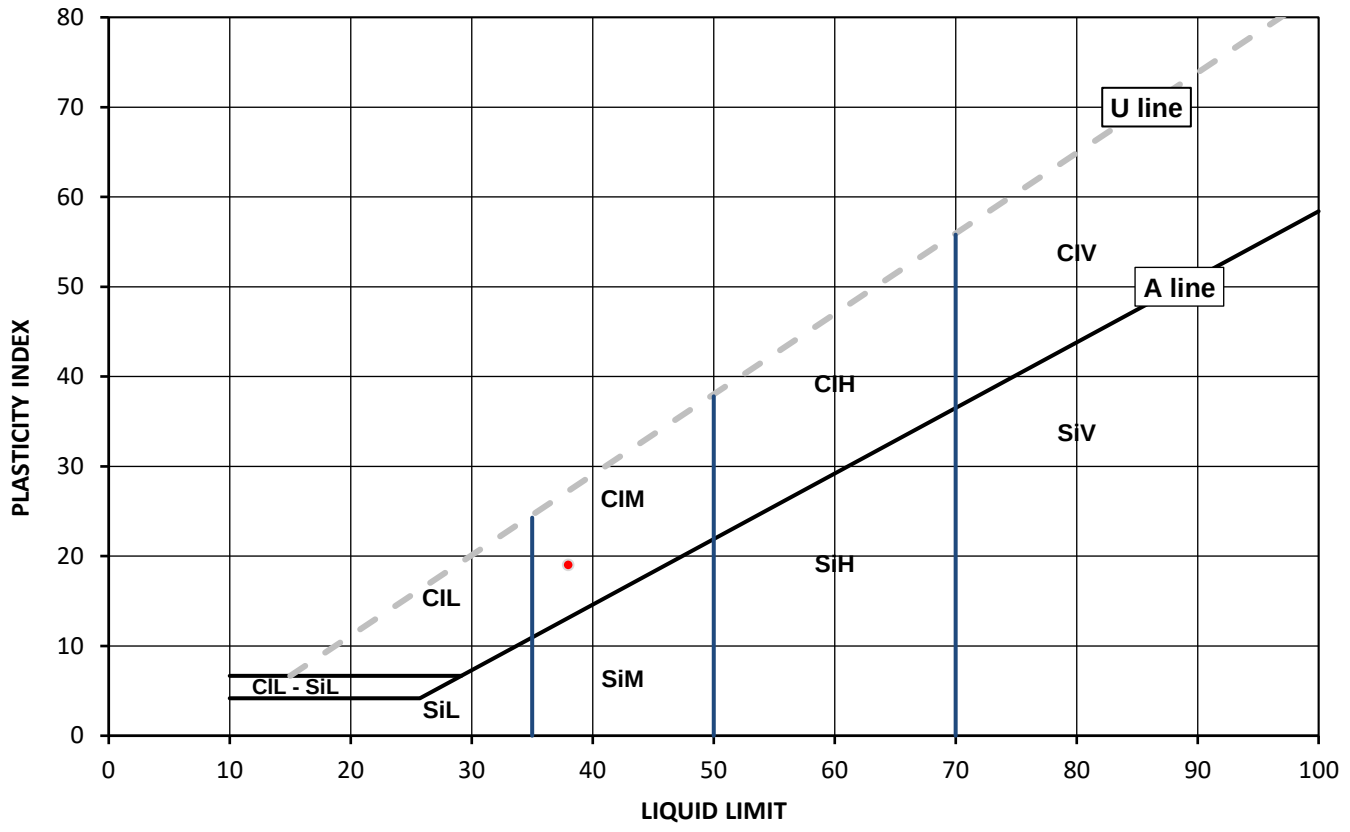
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Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128588	Depth Top [m]:	1.87
Hole No.:	TP712	Depth Base [m]:	1.87
Sample Reference:	4	Sample Type:	D
Sample Description:	Dark brown slightly gravelly sandy CLAY		
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
18	38	19	19	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

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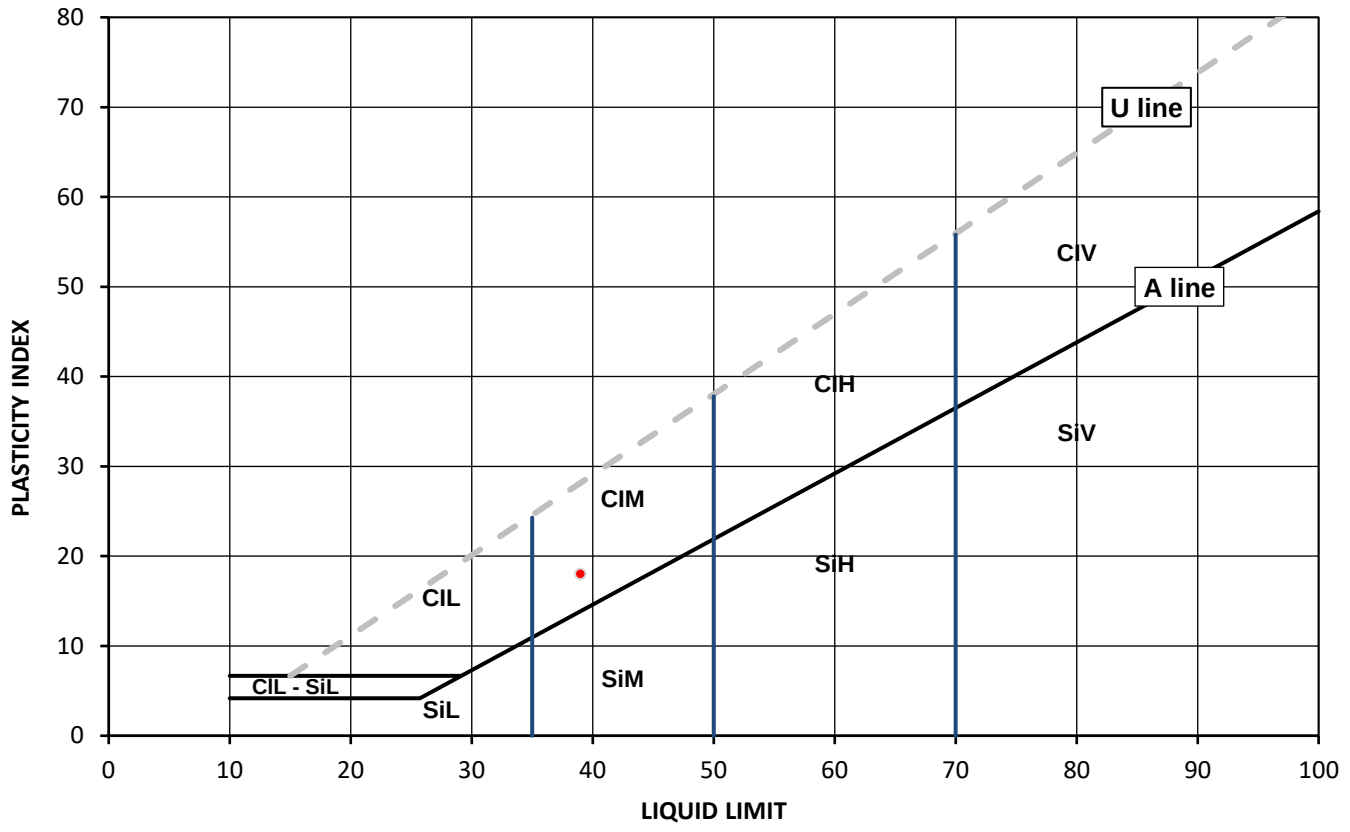
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128589	Depth Top [m]:	1.90
Hole No.:	TP716	Depth Base [m]:	1.90
Sample Reference:	6	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
19	39	21	18	95



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

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Environmental Science

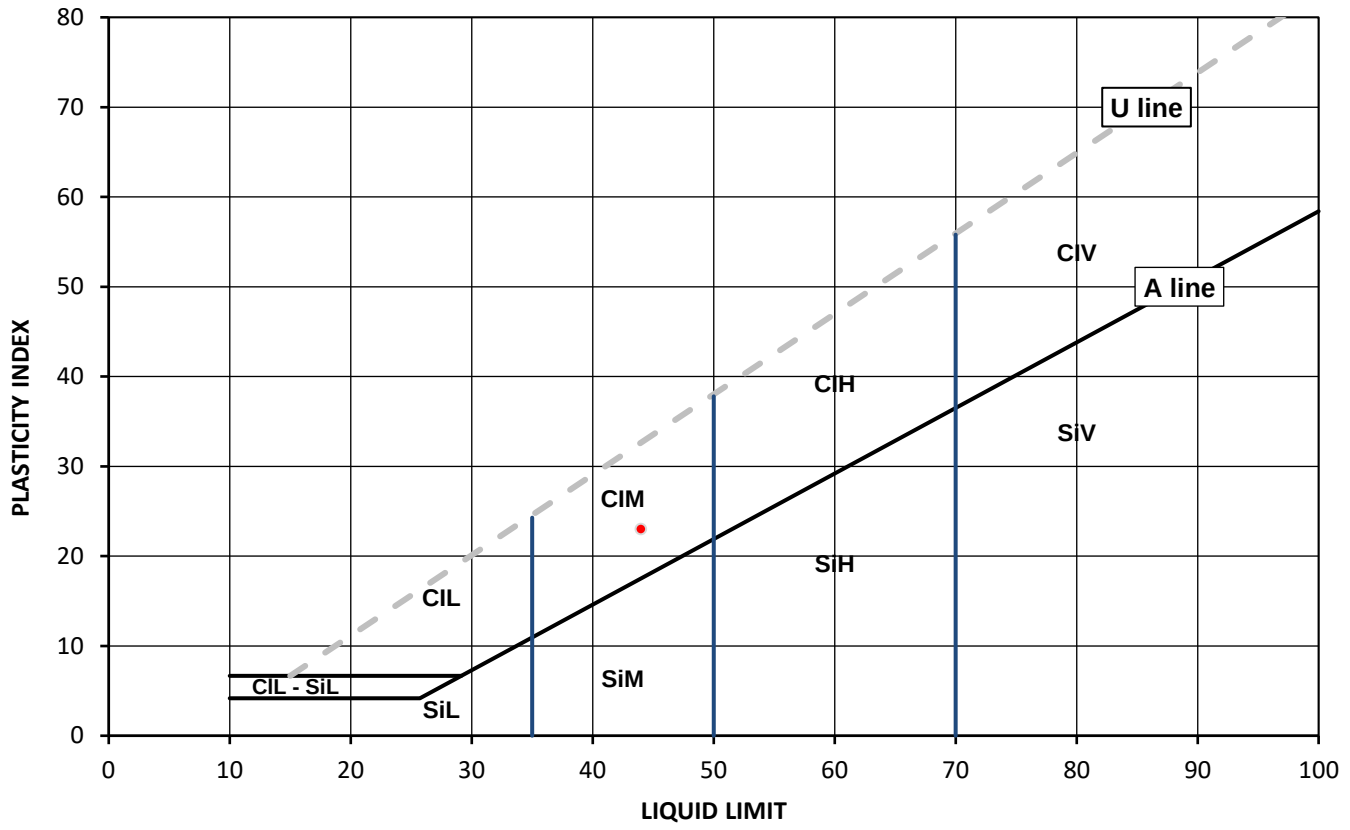
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Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128590	Depth Top [m]:	1.80
Hole No.:	TP720	Depth Base [m]:	1.80
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
23	44	21	23	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)

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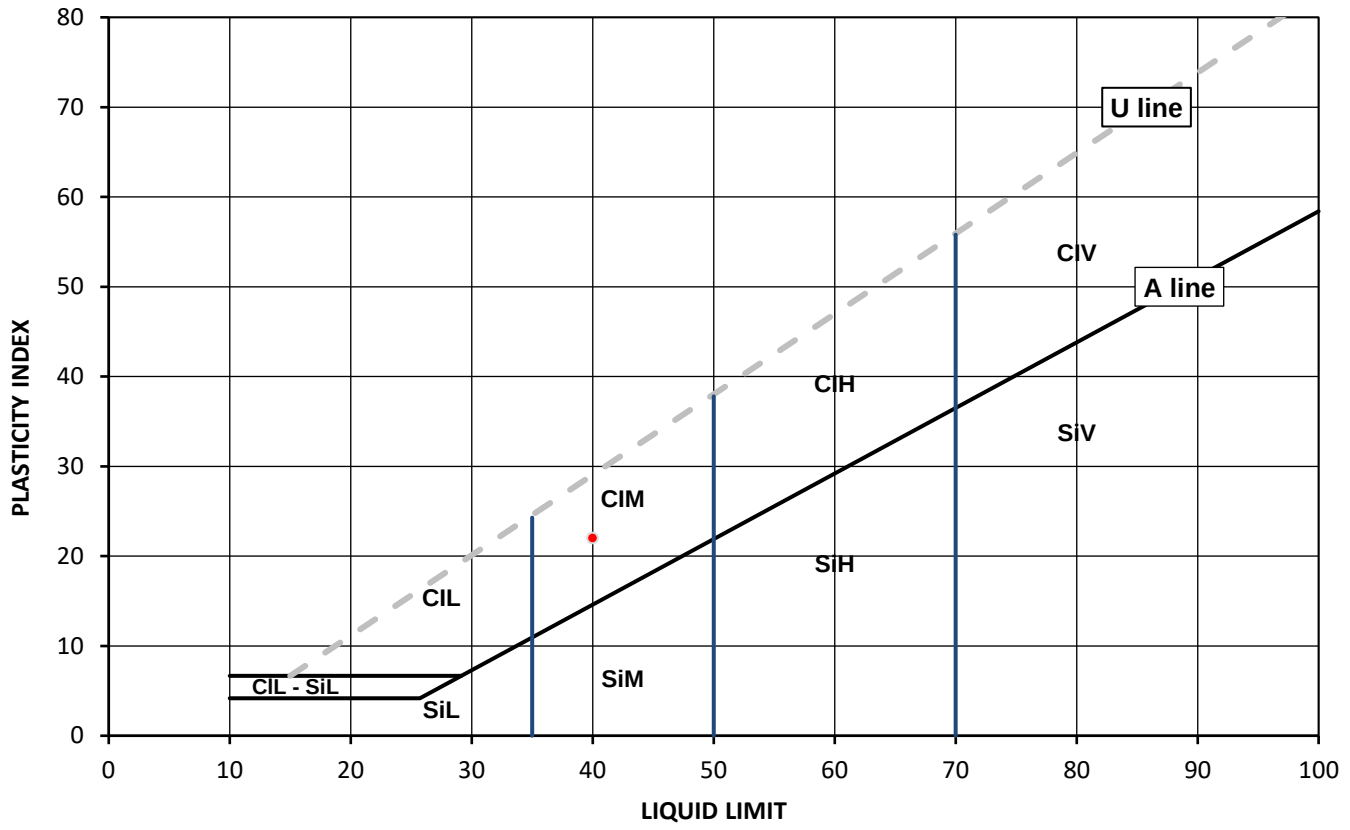
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128593	Depth Top [m]:	4.30
Hole No.:	MPBH714	Depth Base [m]:	4.30
Sample Reference:	3	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
21	40	18	22	80



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

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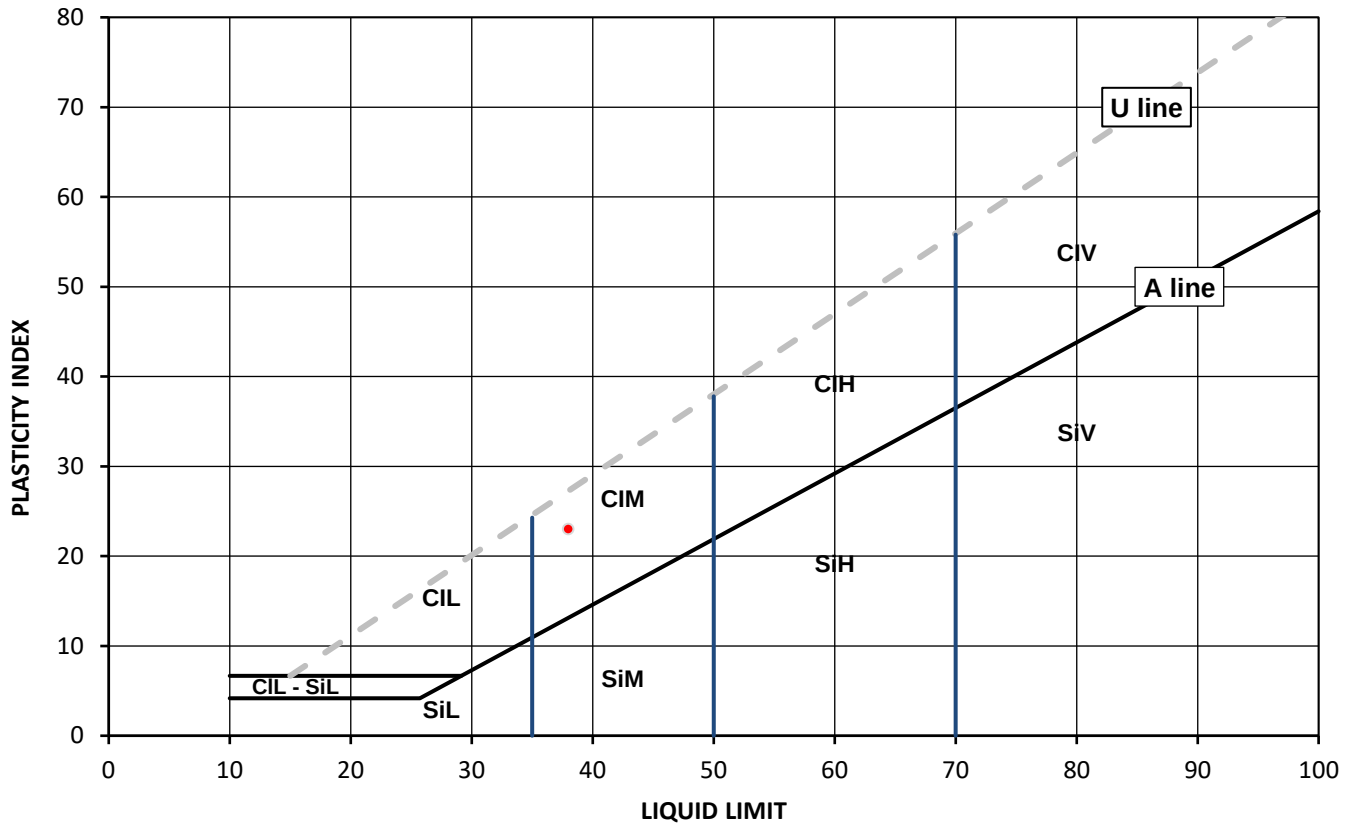
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128594	Depth Top [m]:	6.20
Hole No.:	MPBH714	Depth Base [m]:	6.20
Sample Reference:	4	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
16	38	15	23	92



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)

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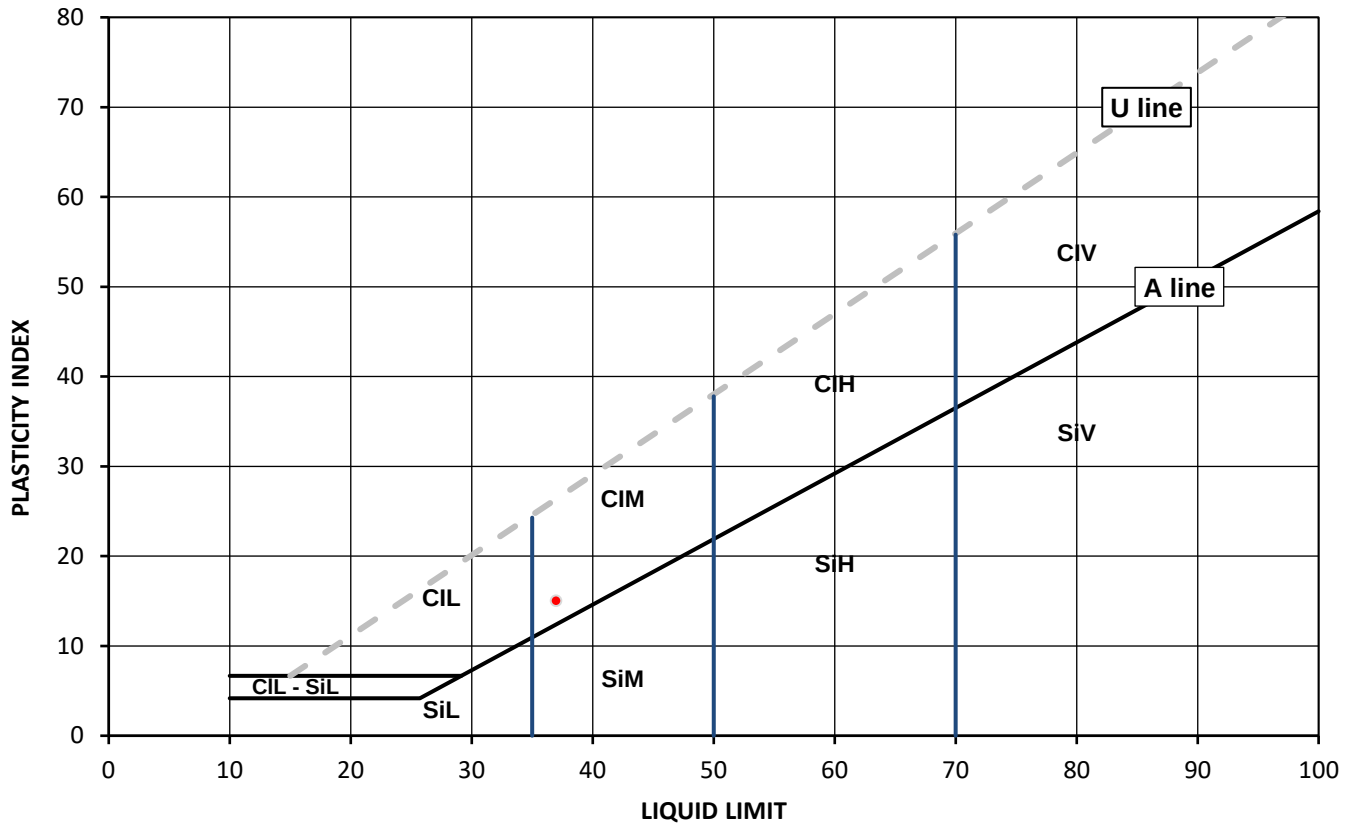
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		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128606	Depth Top [m]:	0.40
Hole No.:	TP722	Depth Base [m]:	0.60
Sample Reference:	4	Sample Type:	B
Sample Description:	Yellowish brown gravelly sandy CLAY		
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
14	37	22	15	51



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: Preliminary report 2

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: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

UKAS TESTING 4041

Environmental Science

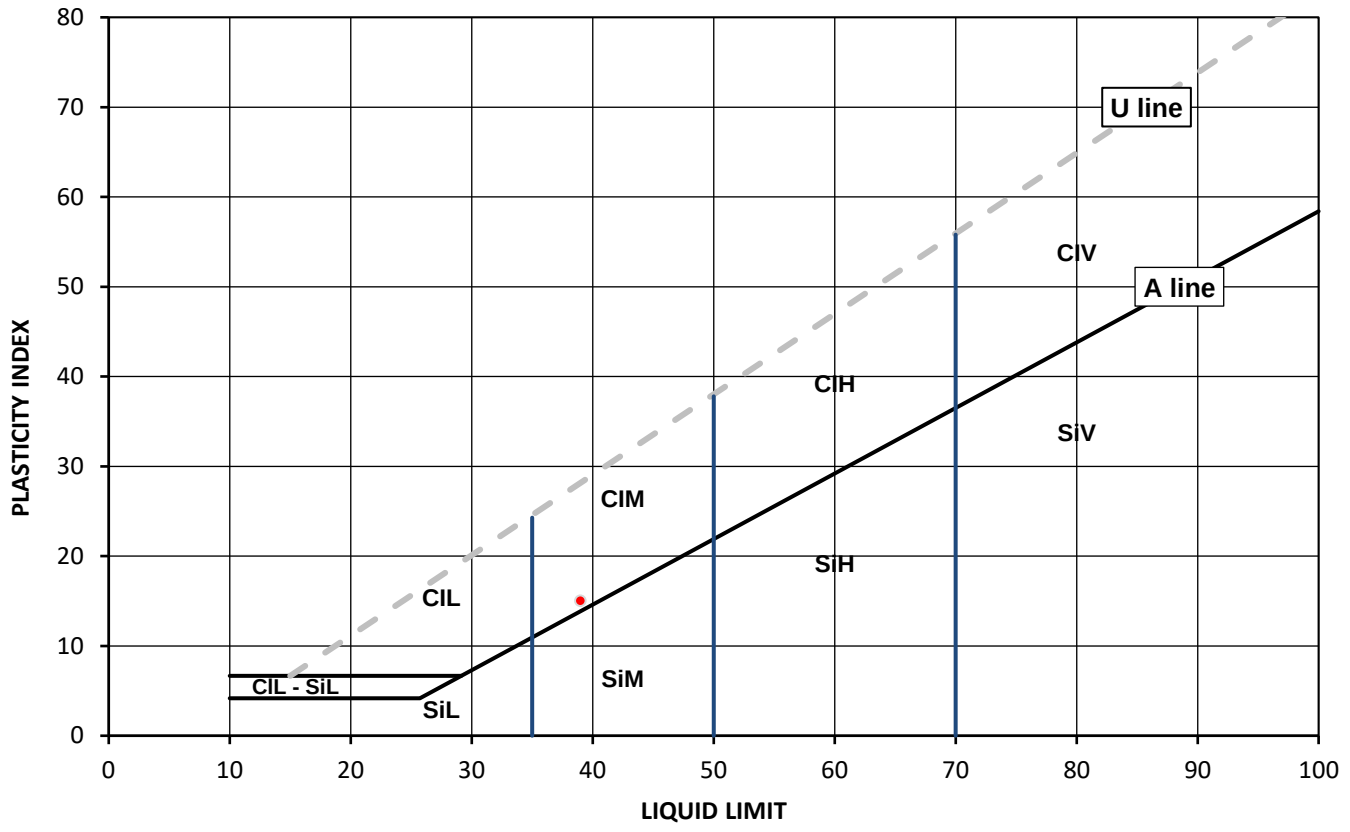
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128608	Depth Top [m]:	0.00
Hole No.:	MPBH710	Depth Base [m]:	1.10
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown sandy clayey GRAVEL		
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
11	39	24	15	20



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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 236.12

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

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: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128586	MPBH701	3	1.50	2.00	B	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		98	41	20	21						
2128587	MPBH701	12	2.00	2.45	D	Brown slightly gravelly slightly sandy CLAY		20											
2128570	MPBH702	2	1.50	1.95	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	23		92	47	27	20						
2128571	MPBH702	11	2.60	3.00	B	Dark brown slightly gravelly sandy CLAY	Atterberg 4 Point	16		99	35	16	19						
2128568	MPBH703	16	3.50	3.95	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15		93	39	19	20						
2128569	MPBH703	13	12.00	12.45	D	Brown slightly sandy CLAY	Atterberg 4 Point	22		100	47	21	26						
2128573	MPBH704	2	1.20	1.65	D	Brown sandy CLAY	Atterberg 4 Point	19		100	39	20	19						
2128574	MPBH704	5	2.00	2.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		96	40	17	23						
2128557	MPBH704	6	3.00	3.45	U	Dark brown slightly gravelly sandy CLAY	Atterberg 4 Point	16		91	36	19	17						
2128572	MPBH705	3	2.20	2.20	D	Greyish brown slightly gravelly sandy CLAY	Atterberg 4 Point	11		98	39	19	20						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

; 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
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128613	MPBH705	5	3.00	4.00	B	Brown gravelly very sandy very clayey SILT										2.70			
2128578	MPBH707	8	6.00	6.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		97	41	19	22						
2128585	MPBH709	5	4.90	4.90	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		81	40	19	21						
2128559	MPBH709	6	5.00	5.45	U	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		90	39	18	21						
2128608	MPBH710	1	0.00	1.10	B	Brown sandy clayey GRAVEL	Atterberg 4 Point	11		20	39	24	15						
2128579	MPBH710	9	10.00	10.45	D	Brown slightly gravelly slightly sandy CLAY		10											
2128575	MPBH711	5	5.00	5.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15		95	36	18	18						
2128576	MPBH711	10	8.00	8.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		97	39	17	22						
2128599	MPBH713	2	0.50	1.20	B	Dark grey slightly gravelly CLAY		20											
2128565	MPBH713	8	3.00	3.45	U	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		81	39	21	18						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

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: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 11/01 - 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128577	MPBH713	18	7.00	7.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		94	40	19	21						
2128592	MPBH714	2	2.50	2.50	D	Brownish grey clayey very sandy GRAVEL		18											
2128593	MPBH714	3	4.30	4.30	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	21		80	40	18	22						
2128594	MPBH714	4	6.20	6.20	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	16		92	38	15	23						
2128600	MPBH715	3	1.20	1.70	B	Dark grey gravelly CLAY		14											
2128562	MPBH715	7	3.00	3.45	U	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15		95	35	18	17						
2128564	MPBH715	16	7.50	7.95	U	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	16		90	33	16	17						
2128580	MPBH715	18	9.00	9.45	D	Brown slightly gravelly clayey SAND	Atterberg 4 Point	9.2		89	25	12	13						
2128603	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL with cobbles		9.0								2.66			
2128597	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL		9.6											

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128604	TP711	1	0.45	0.60	B	Dark grey gravelly CLAY		6.3								2.67			
2128588	TP712	4	1.87	1.87	D	Dark brown slightly gravelly sandy CLAY	Atterberg 4 Point	18		99	38	19	19						
2128607	TP715	6	1.20	1.40	B	Brown CLAY										2.72			
2128605	TP716	2	0.30	0.60	B	Dark brown sandy very gravelly CLAY										2.56			
2128589	TP716	6	1.90	1.90	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		95	39	21	18						
2128590	TP720	5	1.80	1.80	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	23		91	44	21	23						
2128606	TP722	4	0.40	0.60	B	Yellowish brown gravelly sandy CLAY	Atterberg 4 Point	14		51	37	22	15						
2128584	WS202	4	1.20	1.65	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	26		70	49	25	24						
2128598	WS701	3	0.70	1.20	B	Brown slightly gravelly CLAY		18											
2128581	WS701	5	1.20	1.65	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		99	40	20	20						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

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: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128601	WS702	2	0.60	1.00	B	Black gravelly clayey SAND		22											
2128582	WS702	9	3.00	3.45	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	15		94	33	17	16						
2128583	WS703	3	1.75	1.75	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	27		84	46	22	24						
2128595	WS704	1	0.30	0.40	B	Brown gravelly sandy CLAY		18											
2128596	WS704	9	2.50	3.00	B	Greyish brown slightly gravelly CLAY		16											

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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			%				
2128586	MPBH701	3	1.50	2.00	B	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 106 °C			
2128587	MPBH701	12	2.00	2.45	D	Brown slightly gravelly slightly sandy CLAY		20	Sample was quartered, oven dried at 109 °C			
2128570	MPBH702	2	1.50	1.95	D	Brownish grey slightly gravelly slightly sandy CLAY		23	Sample was quartered, oven dried at 109 °C			
2128571	MPBH702	11	2.60	3.00	B	Dark brown slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 109 °C			
2128568	MPBH703	16	3.50	3.95	D	Brown slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128569	MPBH703	13	12.00	12.45	D	Brown slightly sandy CLAY		22	Sample was quartered, oven dried at 109 °C			
2128573	MPBH704	2	1.20	1.65	D	Brown sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128574	MPBH704	5	2.00	2.45	D	Brown slightly gravelly sandy CLAY		19	Sample was whole tested, oven dried at 109 °C			
2128557	MPBH704	6	3.00	3.45	U	Dark brown slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 107 °C			
2128572	MPBH705	3	2.20	2.20	D	Greyish brown slightly gravelly sandy CLAY		11	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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			%				
2128578	MPBH707	8	6.00	6.45	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128585	MPBH709	5	4.90	4.90	D	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128559	MPBH709	6	5.00	5.45	U	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128608	MPBH710	1	0.00	1.10	B	Brown sandy clayey GRAVEL		11	Sample was quartered, oven dried at 106.2 °C			
2128579	MPBH710	9	10.00	10.45	D	Brown slightly gravelly slightly sandy CLAY		10	Sample was quartered, oven dried at 109 °C			
2128575	MPBH711	5	5.00	5.45	D	Brown slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128576	MPBH711	10	8.00	8.45	D	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128599	MPBH713	2	0.50	1.20	B	Dark grey slightly gravelly CLAY		20	Sample was quartered, oven dried at 109 °C			
2128565	MPBH713	8	3.00	3.45	U	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128577	MPBH713	18	7.00	7.45	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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			%				
2128592	MPBH714	2	2.50	2.50	D	Brownish grey clayey very sandy GRAVEL		18	Sample was quartered, oven dried at 106 °C			
2128593	MPBH714	3	4.30	4.30	D	Brown slightly gravelly sandy CLAY		21	Sample was quartered, oven dried at 109 °C			
2128594	MPBH714	4	6.20	6.20	D	Brown slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 109 °C			
2128600	MPBH715	3	1.20	1.70	B	Dark grey gravelly CLAY		14	Sample was quartered, oven dried at 109 °C			
2128562	MPBH715	7	3.00	3.45	U	Brown slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128564	MPBH715	16	7.50	7.95	U	Brown slightly gravelly very sandy CLAY		16	Sample was quartered, oven dried at 109 °C			
2128580	MPBH715	18	9.00	9.45	D	Brown slightly gravelly clayey SAND		9.2	Sample was quartered, oven dried at 109 °C			
2128603	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL with cobbles		9.0	Sample was quartered, oven dried at 106.6 °C			
2128597	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL		9.6	Sample was quartered, oven dried at 109 °C			
2128604	TP711	1	0.45	0.60	B	Dark grey gravelly CLAY		6.3	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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			%				
2128588	TP712	4	1.87	1.87	D	Dark brown slightly gravelly sandy CLAY		18	Sample was quartered, oven dried at 109 °C			
2128589	TP716	6	1.90	1.90	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128590	TP720	5	1.80	1.80	D	Brown slightly gravelly sandy CLAY		23	Sample was quartered, oven dried at 109 °C			
2128606	TP722	4	0.40	0.60	B	Yellowish brown gravelly sandy CLAY		14	Sample was quartered, oven dried at 106.5 °C			
2128584	WS202	4	1.20	1.65	D	Brown slightly gravelly slightly sandy CLAY		26	Sample was quartered, oven dried at 109 °C			
2128598	WS701	3	0.70	1.20	B	Brown slightly gravelly CLAY		18	Sample was quartered, oven dried at 106 °C			
2128581	WS701	5	1.20	1.65	D	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128601	WS702	2	0.60	1.00	B	Black gravelly clayey SAND		22	Sample was quartered, oven dried at 109 °C			
2128582	WS702	9	3.00	3.45	D	Brown slightly gravelly very sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128583	WS703	3	1.75	1.75	D	Brown slightly gravelly slightly sandy CLAY		27	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

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4041

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Date Tested: 12/01/2022
Sampled By: Client - R.S

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			%				
2128595	WS704	1	0.30	0.40	B	Brown gravelly sandy CLAY		18	Sample was quartered, oven dried at 106 °C			
2128596	WS704	9	2.50	3.00	B	Greyish brown slightly gravelly CLAY		16	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
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Date Reported: 19/01/2022

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

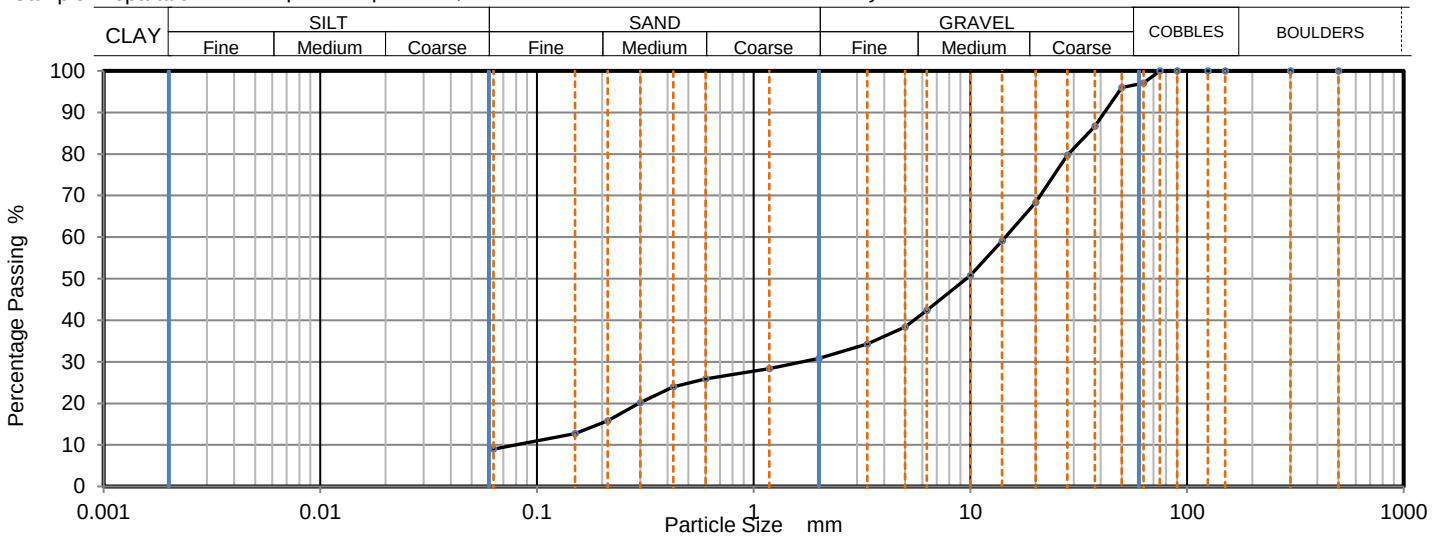
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128603	Depth Top [m]:	0.20
Hole No.:	TP709	Depth Base [m]:	0.50
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL with cobbles		
Sample Preparation:	Sample was quartered, oven dried at 106.6 °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	97		
50	96		
37.5	87		
28	80		
20	68		
14	59		
10	51		
6.3	42		
5	38		
3.35	34		
2	31		
1.18	28		
0.6	26		
0.425	24		
0.3	20		
0.212	16		
0.15	13		
0.063	9		

Sample Proportions	% dry mass
Very coarse	3
Gravel	66
Sand	21
Fines <0.063mm	9

Grading Analysis		
D100	mm	75
D60	mm	14.5
D30	mm	1.68
D10	mm	0.0737
Uniformity Coefficient		200
Curvature Coefficient		2.6

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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
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Northampton NN4 7EB

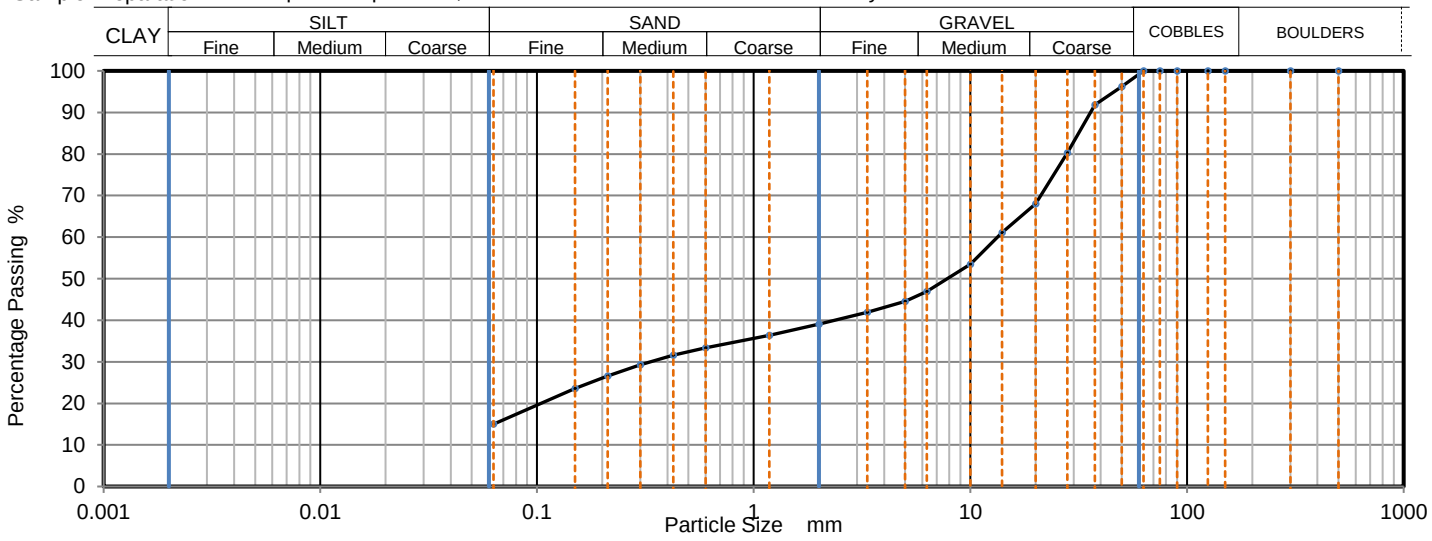
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128605	Depth Top [m]:	0.30
Hole No.:	TP716	Depth Base [m]:	0.60
Sample Reference:	2	Sample Type:	B
Sample Description:	Dark brown clayey sandy GRAVEL		
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	100		
50	96		
37.5	92		
28	80		
20	68		
14	61		
10	54		
6.3	47		
5	45		
3.35	42		
2	39		
1.18	36		
0.6	33		
0.425	32		
0.3	29		
0.212	27		
0.15	24		
0.063	16		

Sample Proportions	% dry mass
Very coarse	0
Gravel	61
Sand	23
Fines <0.063mm	16

Grading Analysis		
D100	mm	63
D60	mm	13.3
D30	mm	0.334
D10	mm	
Uniformity Coefficient		> 210
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: Preliminary report 2

Signed: Katarzyna Koziel

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for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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Northampton NN4 7EB

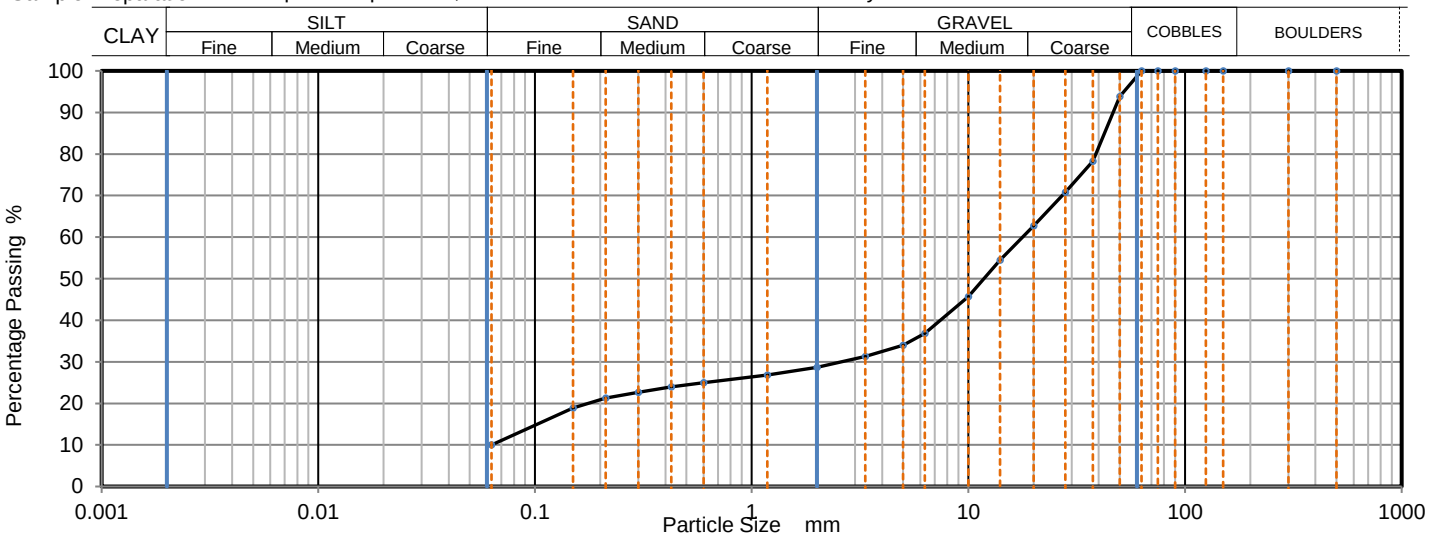
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128608	Depth Top [m]:	0.00
Hole No.:	MPBH710	Depth Base [m]:	1.10
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown sandy clayey GRAVEL		
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		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	94		
37.5	78		
28	71		
20	63		
14	55		
10	46		
6.3	37		
5	34		
3.35	31		
2	29		
1.18	27		
0.6	25		
0.425	24		
0.3	23		
0.212	21		
0.15	19		
0.063	11		

Sample Proportions	% dry mass
Very coarse	0
Gravel	71
Sand	18
Fines <0.063mm	11

Grading Analysis		
D100	mm	63
D60	mm	17.8
D30	mm	2.6
D10	mm	
Uniformity Coefficient		> 280
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
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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

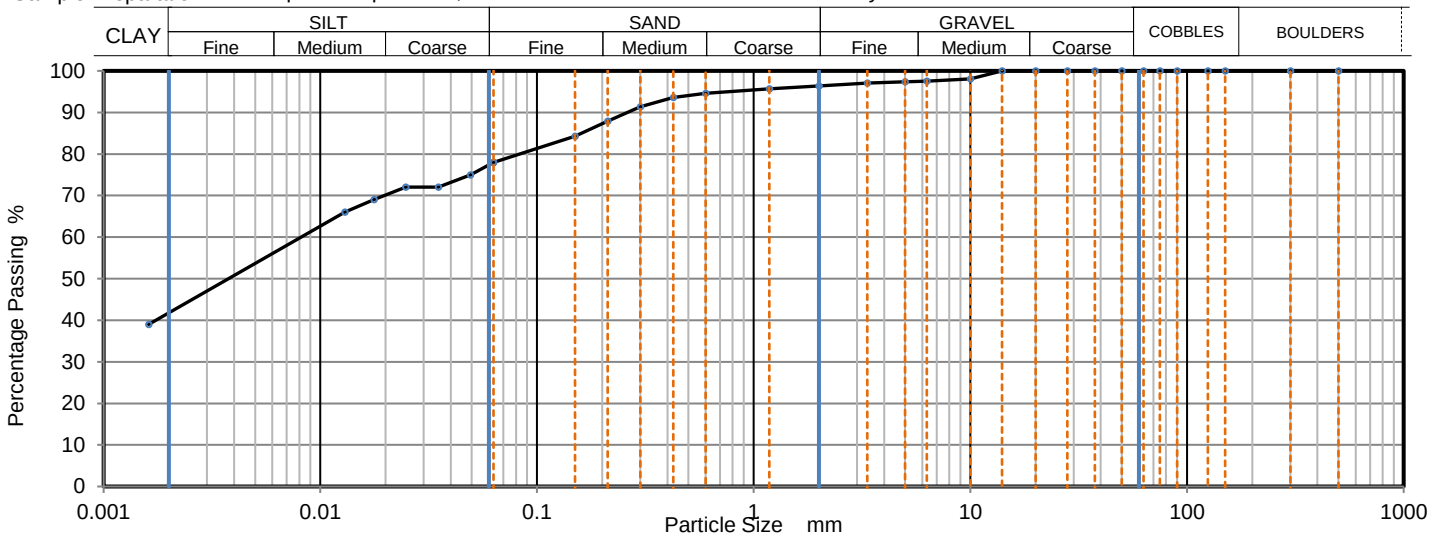
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128609	Depth Top [m]:	2.60
Hole No.:	MPBH702	Depth Base [m]:	3.00
Sample Reference:	11	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly sandy very silty CLAY		
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	78
300	100	0.0493	75
150	100	0.0351	72
125	100	0.0248	72
90	100	0.0177	69
75	100	0.0130	66
63	100	0.0016	39
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	98		
6.3	98		
5	97		
3.35	97	Particle density	(assumed)
2	96	2.65	Mg/m3
1.18	96		
0.6	95		
0.425	94		
0.3	91		
0.212	88		
0.15	84		
0.063	78		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	18
Silt	36
Clay	42

Grading Analysis		
D100	mm	14
D60	mm	0.00802
D30	mm	
D10	mm	
Uniformity Coefficient		> 5
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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TEST CERTIFICATE

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Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
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Northampton NN4 7EB

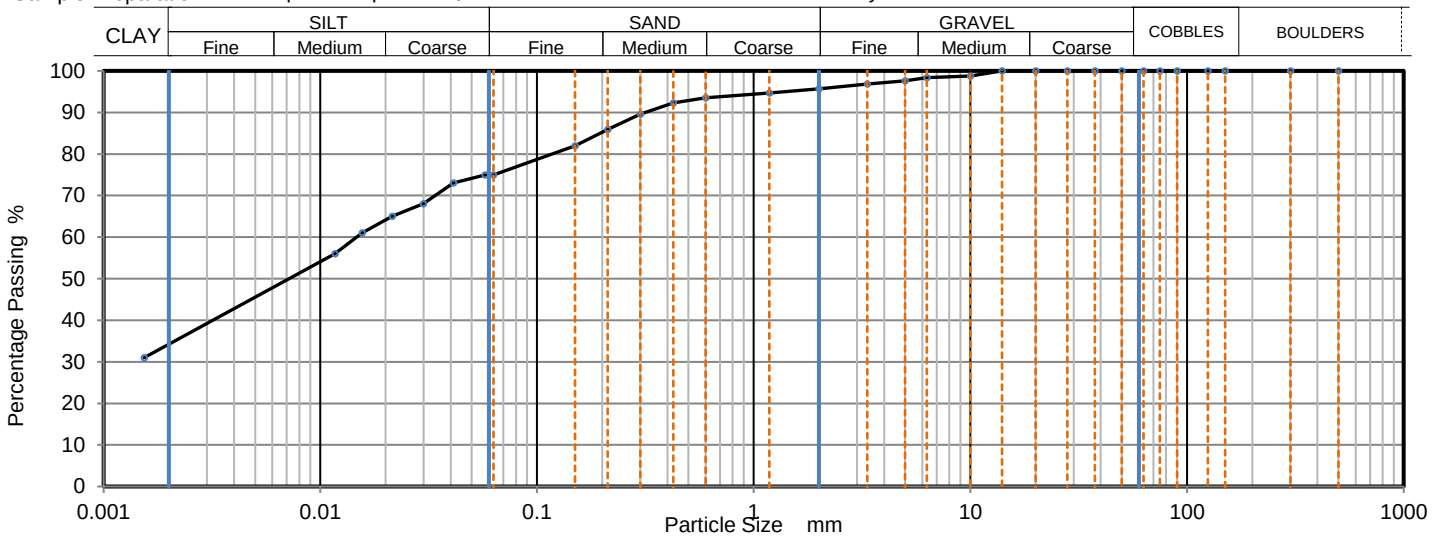
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128610	Depth Top [m]:	4.50
Hole No.:	MPBH711	Depth Base [m]:	6.00
Sample Reference:	15	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy very clayey SILT		
Sample Preparation:	Sample was quartered, oven dried at 107.6 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0576	75
300	100	0.0411	73
150	100	0.0299	68
125	100	0.0215	65
90	100	0.0156	61
75	100	0.0117	56
63	100	0.0015	31
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	98		
3.35	97	Particle density	(assumed)
2	96	2.65	Mg/m3
1.18	95		
0.6	94		
0.425	92		
0.3	90		
0.212	86		
0.15	82		
0.063	75		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	21
Silt	41
Clay	34

Grading Analysis		
D100	mm	14
D60	mm	0.0151
D30	mm	
D10	mm	
Uniformity Coefficient		> 9.8
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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
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Northampton NN4 7EB

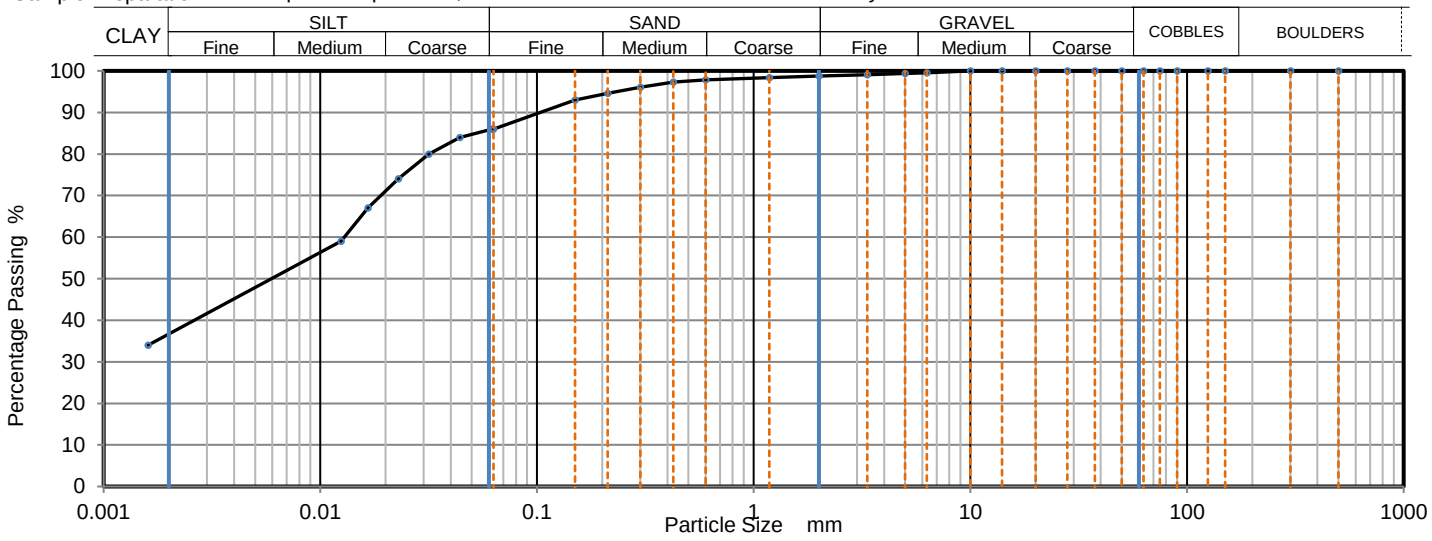
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Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128611	Depth Top [m]:	1.50
Hole No.:	MPBH704	Depth Base [m]:	2.00
Sample Reference:	3	Sample Type:	B
Sample Description:	Brown sandy very clayey 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	0.0618	86
300	100	0.0441	84
150	100	0.0317	80
125	100	0.0229	74
90	100	0.0166	67
75	100	0.0125	59
63	100	0.0016	34
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99	Particle density	(assumed)
2	99	2.65	Mg/m3
1.18	98		
0.6	98		
0.425	97		
0.3	96		
0.212	95		
0.15	93		
0.063	86		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	13
Silt	50
Clay	36

Grading Analysis		
D100	mm	10
D60	mm	0.013
D30	mm	
D10	mm	
Uniformity Coefficient		> 8.1
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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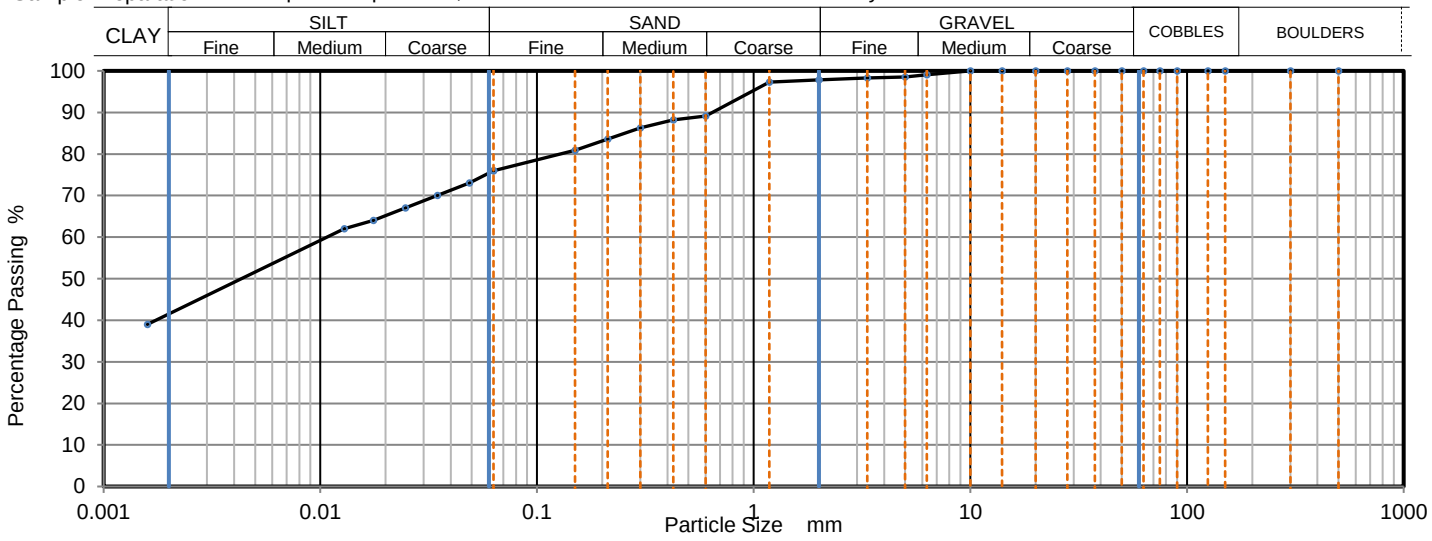
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128612	Depth Top [m]:	6.00
Hole No.:	MPBH709	Depth Base [m]:	6.45
Sample Reference:	9	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly very sandy very silty CLAY		
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	76
300	100	0.0487	73
150	100	0.0347	70
125	100	0.0247	67
90	100	0.0176	64
75	100	0.0129	62
63	100	0.0016	39
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	98	Particle density	(assumed)
2	98	2.65	Mg/m3
1.18	97		
0.6	89		
0.425	88		
0.3	86		
0.212	84		
0.15	81		
0.063	76		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	22
Silt	34
Clay	42

Grading Analysis		
D100	mm	10
D60	mm	0.011
D30	mm	
D10	mm	
Uniformity Coefficient		> 6.9
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: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 100.21

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DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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Brackmills Industrial Estate
Northampton NN4 7EB

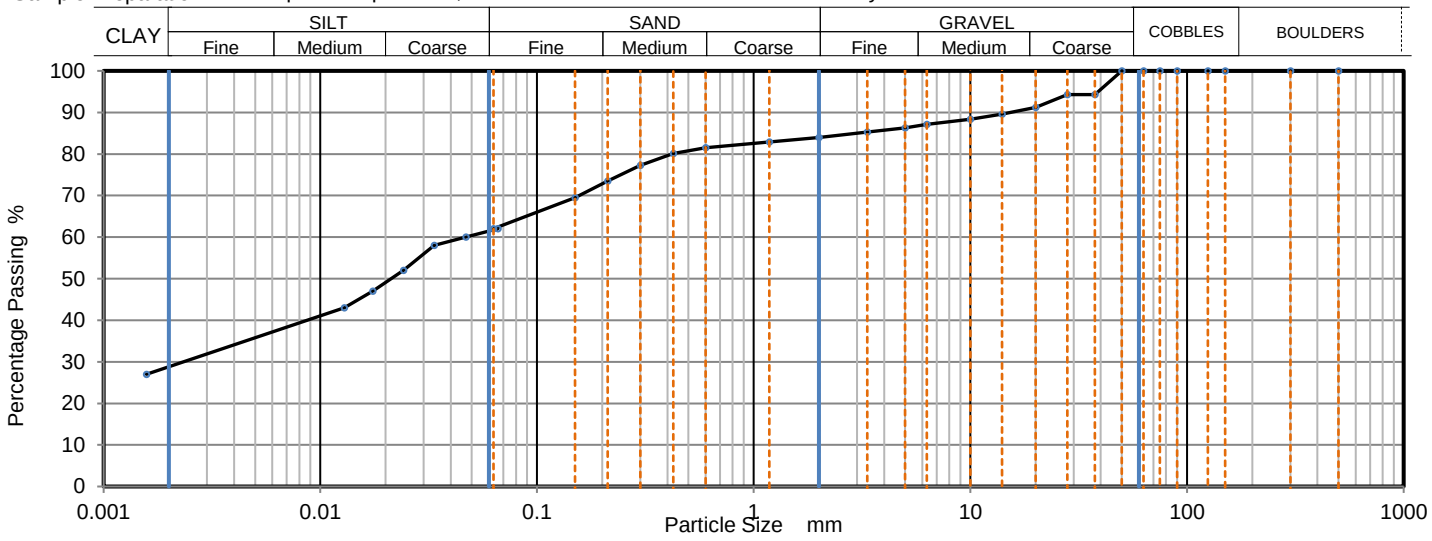
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128613	Depth Top [m]:	3.00
Hole No.:	MPBH705	Depth Base [m]:	4.00
Sample Reference:	5	Sample Type:	B
Sample Description:	Brown gravelly very sandy very clayey 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	0.0660	62
300	100	0.0470	60
150	100	0.0335	58
125	100	0.0242	52
90	100	0.0175	47
75	100	0.0129	43
63	100	0.0016	27
50	100		
37.5	94		
28	94		
20	91		
14	90		
10	88		
6.3	87		
5	86		
3.35	85	Particle density	(assumed)
2	84	2.65	Mg/m3
1.18	83		
0.6	82		
0.425	80		
0.3	77		
0.212	74		
0.15	70		
0.063	62		

Sample Proportions	% dry mass
Very coarse	0
Gravel	16
Sand	22
Silt	33
Clay	29

Grading Analysis		
D100	mm	50
D60	mm	0.0465
D30	mm	0.00233
D10	mm	
Uniformity Coefficient		> 30
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

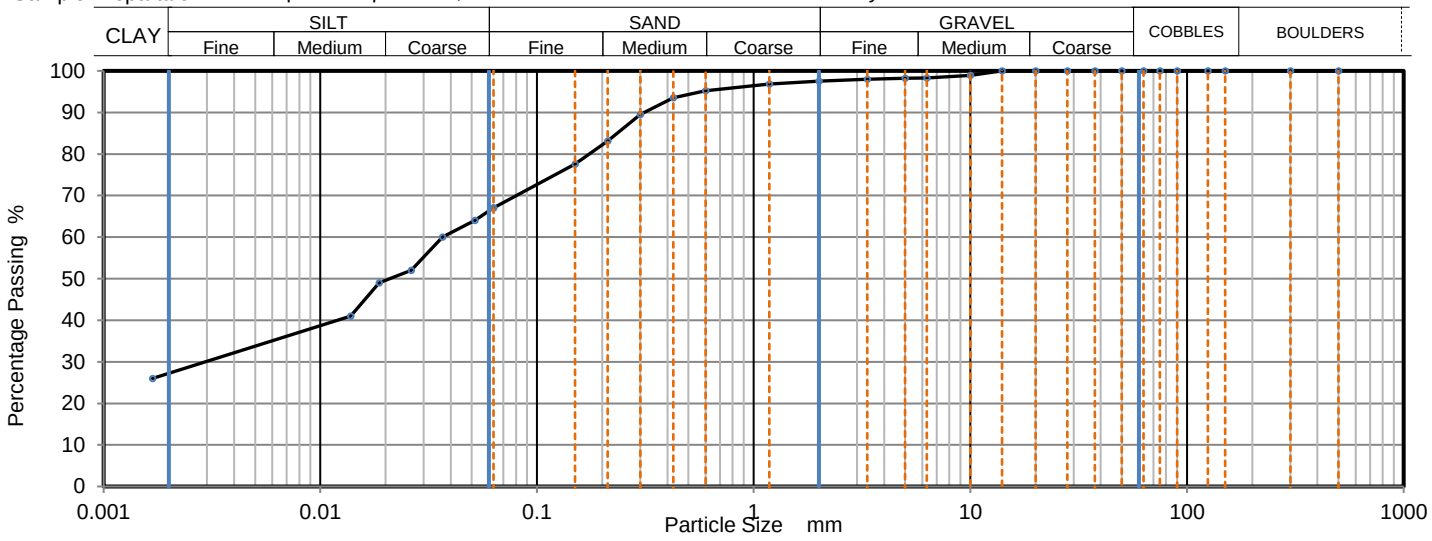
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128614	Depth Top [m]:	6.50
Hole No.:	MPBH714	Depth Base [m]:	7.00
Sample Reference:	6	Sample Type:	B
Sample Description:	Brown slightly 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	67
300	100	0.0516	64
150	100	0.0367	60
125	100	0.0263	52
90	100	0.0187	49
75	100	0.0138	41
63	100	0.0017	26
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	98		
3.35	98	Particle density	(assumed)
2	98	2.65	Mg/m3
1.18	97		
0.6	95		
0.425	94		
0.3	90		
0.212	83		
0.15	78		
0.063	67		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	30
Silt	41
Clay	27

Grading Analysis		
D100	mm	14
D60	mm	0.0373
D30	mm	0.00288
D10	mm	
Uniformity Coefficient		> 22
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

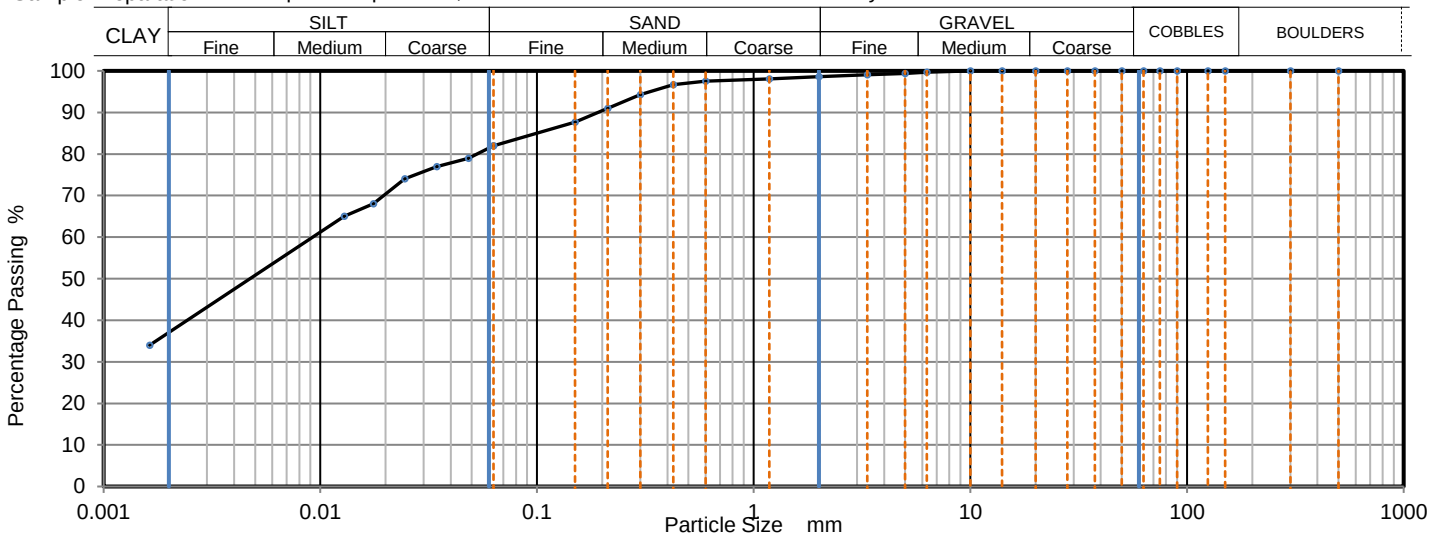
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128615	Depth Top [m]:	10.00
Hole No.:	MPBH714	Depth Base [m]:	10.50
Sample Reference:	8	Sample Type:	B
Sample Description:	Brown sandy very clayey 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	82
300	100	0.0483	79
150	100	0.0344	77
125	100	0.0245	74
90	100	0.0176	68
75	100	0.0129	65
63	100	0.0016	34
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99	Particle density	(assumed)
2	99	2.65	Mg/m3
1.18	98		
0.6	98		
0.425	97		
0.3	94		
0.212	91		
0.15	88		
0.063	82		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	16
Silt	46
Clay	37

Grading Analysis		
D100	mm	10
D60	mm	0.0091
D30	mm	
D10	mm	
Uniformity Coefficient		> 5.6
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

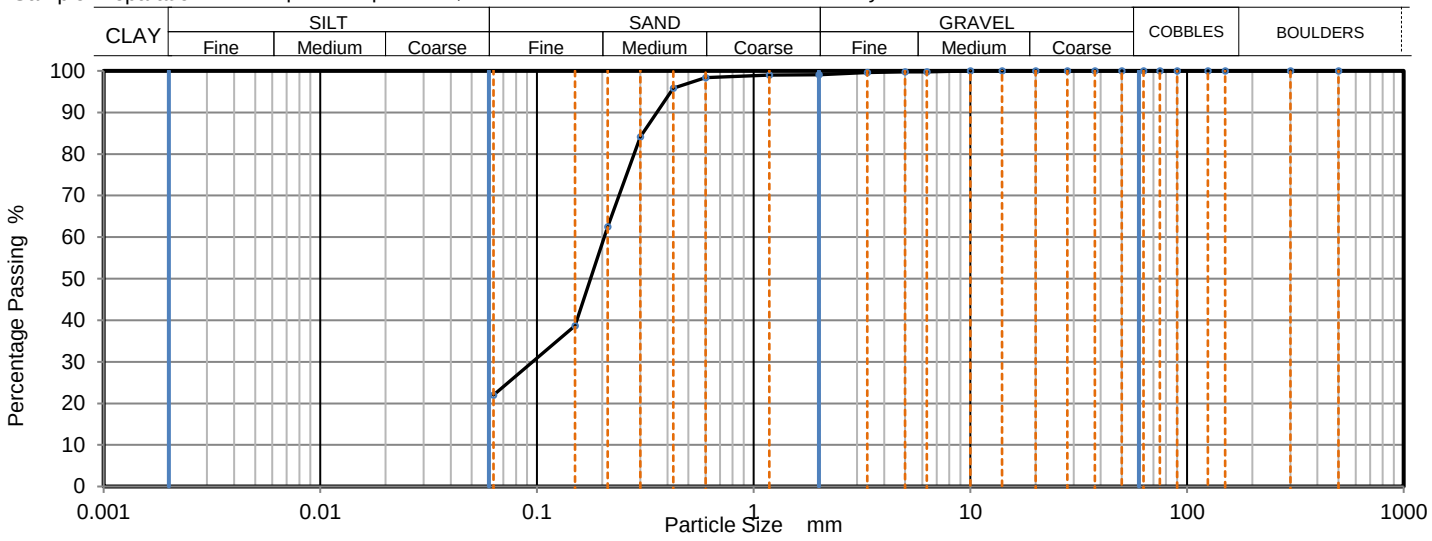
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Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128616	Depth Top [m]:	15.00
Hole No.:	MPBH715	Depth Base [m]:	16.50
Sample Reference:	11	Sample Type:	B
Sample Description:	Reddish brown clayey SAND		
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		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	98		
0.425	96		
0.3	84		
0.212	63		
0.15	39		
0.063	23		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	77
Fines <0.063mm	22

Grading Analysis		
D100	mm	10
D60	mm	0.204
D30	mm	0.0944
D10	mm	
Uniformity Coefficient		> 3.2
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: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
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Brackmills Industrial Estate
Northampton NN4 7EB

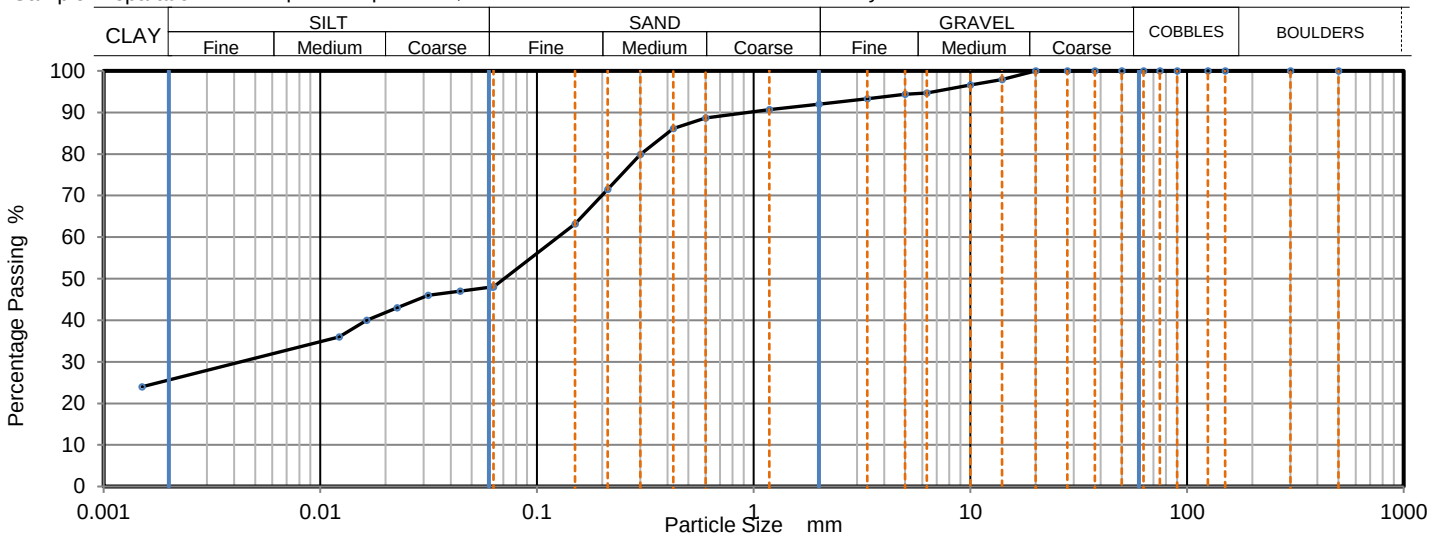
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128617	Depth Top [m]:	8.00
Hole No.:	MPBH703	Depth Base [m]:	8.50
Sample Reference:	9	Sample Type:	B
Sample Description:	Brown slightly gravelly very sandy CLAY		
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	0.0619	48
300	100	0.0441	47
150	100	0.0315	46
125	100	0.0226	43
90	100	0.0164	40
75	100	0.0122	36
63	100	0.0015	24
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	97		
6.3	95		
5	94		
3.35	93	Particle density	(assumed)
2	92	2.65	Mg/m3
1.18	91		
0.6	89		
0.425	86		
0.3	80		
0.212	72		
0.15	63		
0.063	48		

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	44
Silt	22
Clay	26

Grading Analysis		
D100	mm	20
D60	mm	0.124
D30	mm	0.00415
D10	mm	
Uniformity Coefficient		> 83
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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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

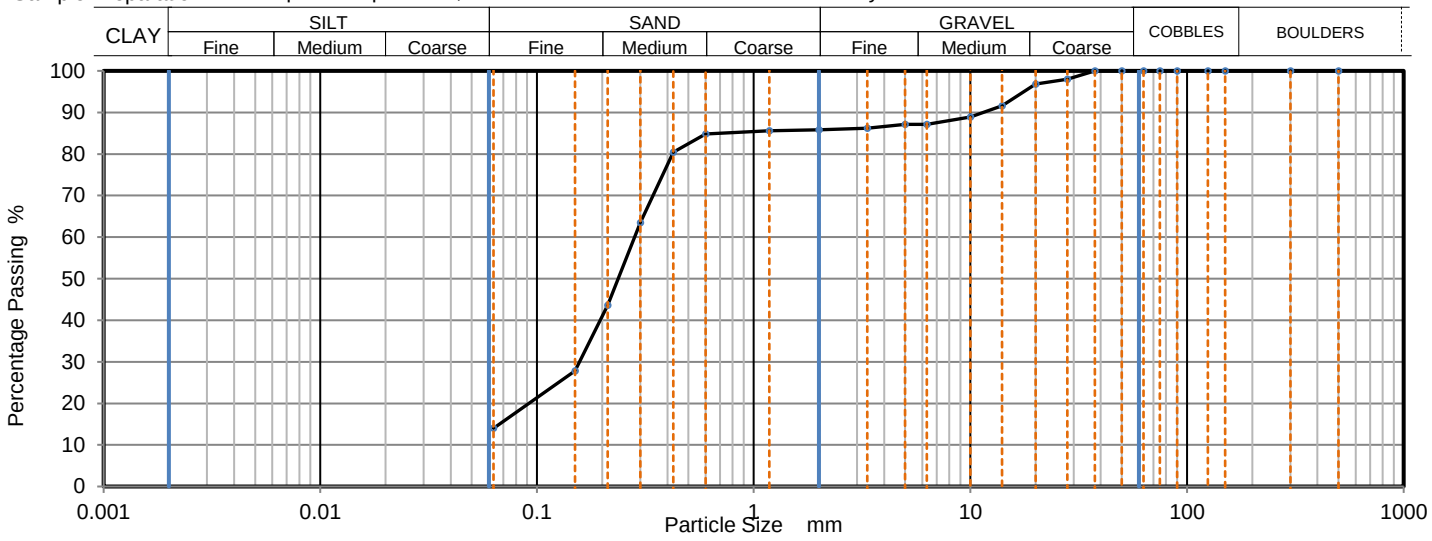
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128618	Depth Top [m]:	16.00
Hole No.:	MPBH707	Depth Base [m]:	16.75
Sample Reference:	20	Sample Type:	B
Sample Description:	Reddish brown gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.7 °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	100		
50	100		
37.5	100		
28	98		
20	97		
14	92		
10	89		
6.3	87		
5	87		
3.35	86		
2	86		
1.18	86		
0.6	85		
0.425	80		
0.3	64		
0.212	44		
0.15	28		
0.063	15		

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	71
Fines <0.063mm	15

Grading Analysis		
D100	mm	37.5
D60	mm	0.282
D30	mm	0.157
D10	mm	
Uniformity Coefficient		> 4.5
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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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

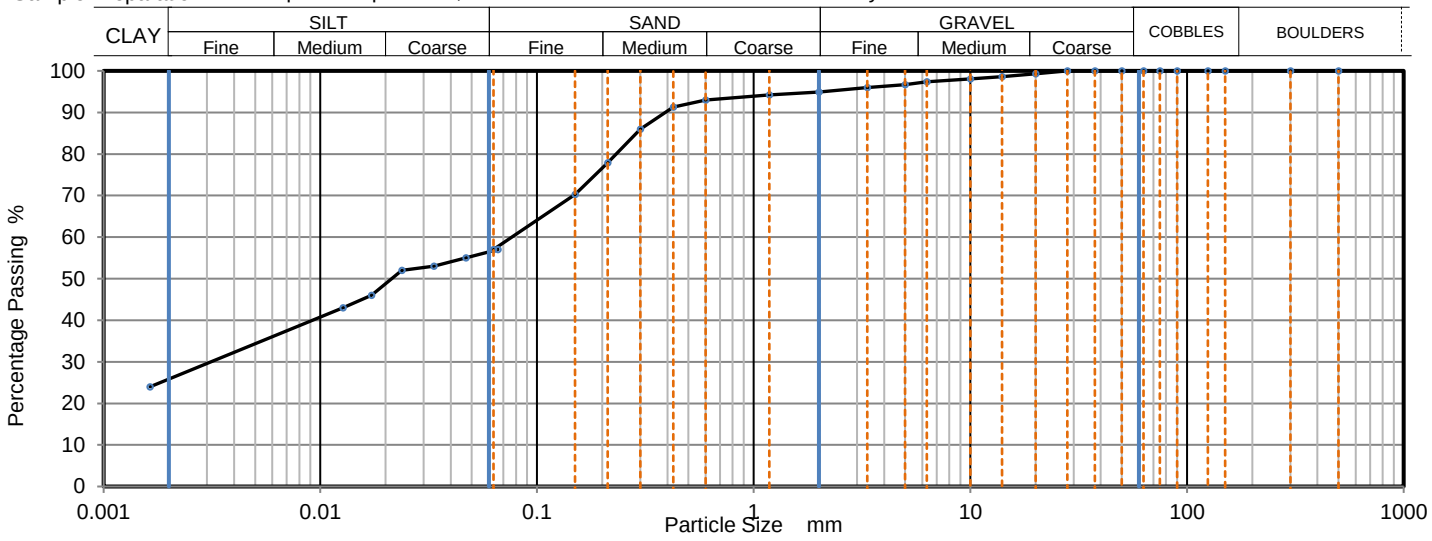
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Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128619	Depth Top [m]:	12.00
Hole No.:	MPBH709	Depth Base [m]:	12.45
Sample Reference:	19	Sample Type:	B
Sample Description:	Brown slightly gravelly very sandy CLAY		
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	0.0659	57
300	100	0.0469	55
150	100	0.0334	53
125	100	0.0238	52
90	100	0.0172	46
75	100	0.0127	43
63	100	0.0016	24
50	100		
37.5	100		
28	100		
20	99		
14	99		
10	98		
6.3	97		
5	97		
3.35	96	Particle density	(assumed)
2	95	2.65	Mg/m3
1.18	94		
0.6	93		
0.425	91		
0.3	86		
0.212	78		
0.15	70		
0.063	57		

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	38
Silt	31
Clay	26

Grading Analysis		
D100	mm	28
D60	mm	0.0777
D30	mm	0.00312
D10	mm	
Uniformity Coefficient		> 47
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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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

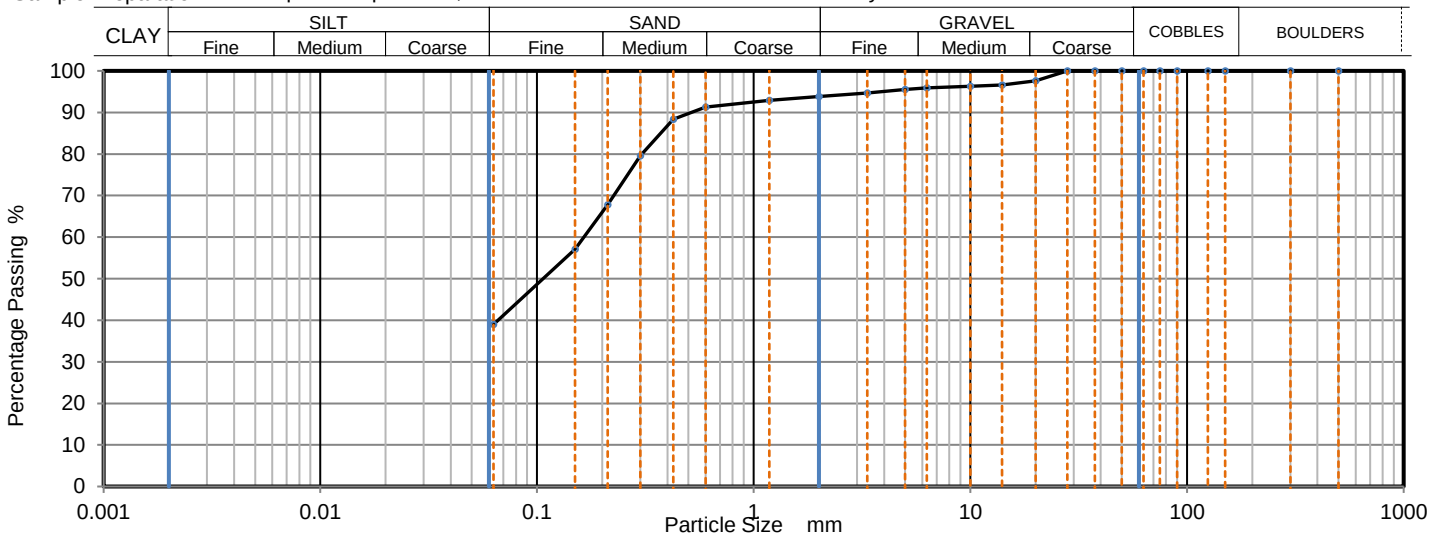
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Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128620	Depth Top [m]:	9.50
Hole No.:	MPBH707	Depth Base [m]:	10.00
Sample Reference:	16	Sample Type:	B
Sample Description:	Brown slightly gravelly very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 106.5 °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	100		
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	96		
6.3	96		
5	96		
3.35	95		
2	94		
1.18	93		
0.6	91		
0.425	88		
0.3	80		
0.212	68		
0.15	57		
0.063	39		

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	55
Fines <0.063mm	39

Grading Analysis		
D100	mm	28
D60	mm	0.165
D30	mm	
D10	mm	
Uniformity Coefficient		> 2.6
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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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

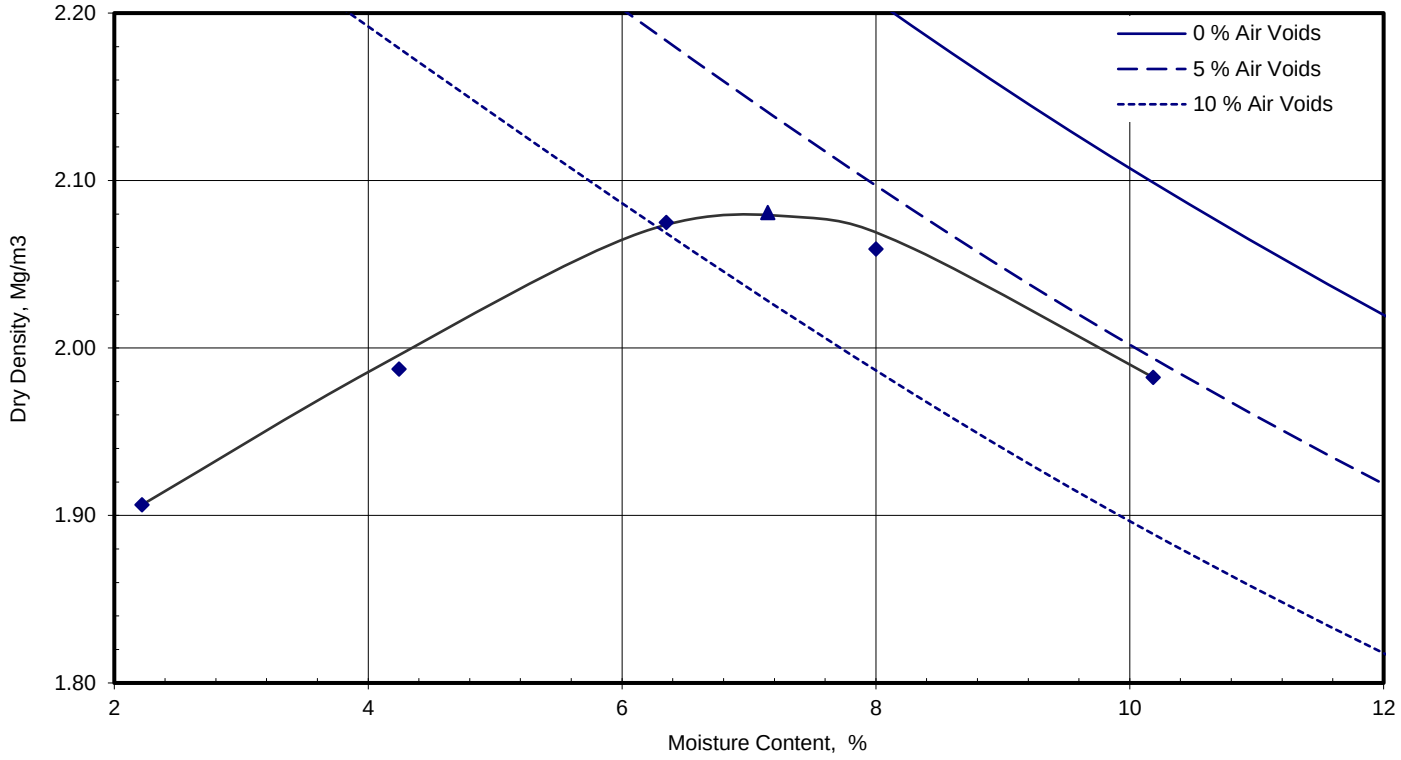
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128604	Depth Top [m]:	0.45
Hole No.:	TP711	Depth Base [m]:	0.60
Sample Reference:	1	Sample Type:	B
Sample Description:	Dark grey 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	%	2.2	4.2	6.3	8.0	10
Dry Density	Mg/m³	1.91	1.99	2.07	2.06	1.98

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	21
Material Retained on 20.0 mm Sieve	%	30
Particle Density - Measured using gas jar	Mg/m³	2.67
As received Moisture Content	%	6.3
Maximum Dry Density	Mg/m³	**2.08**

Optimum Moisture Content	%	**7.1**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request
Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

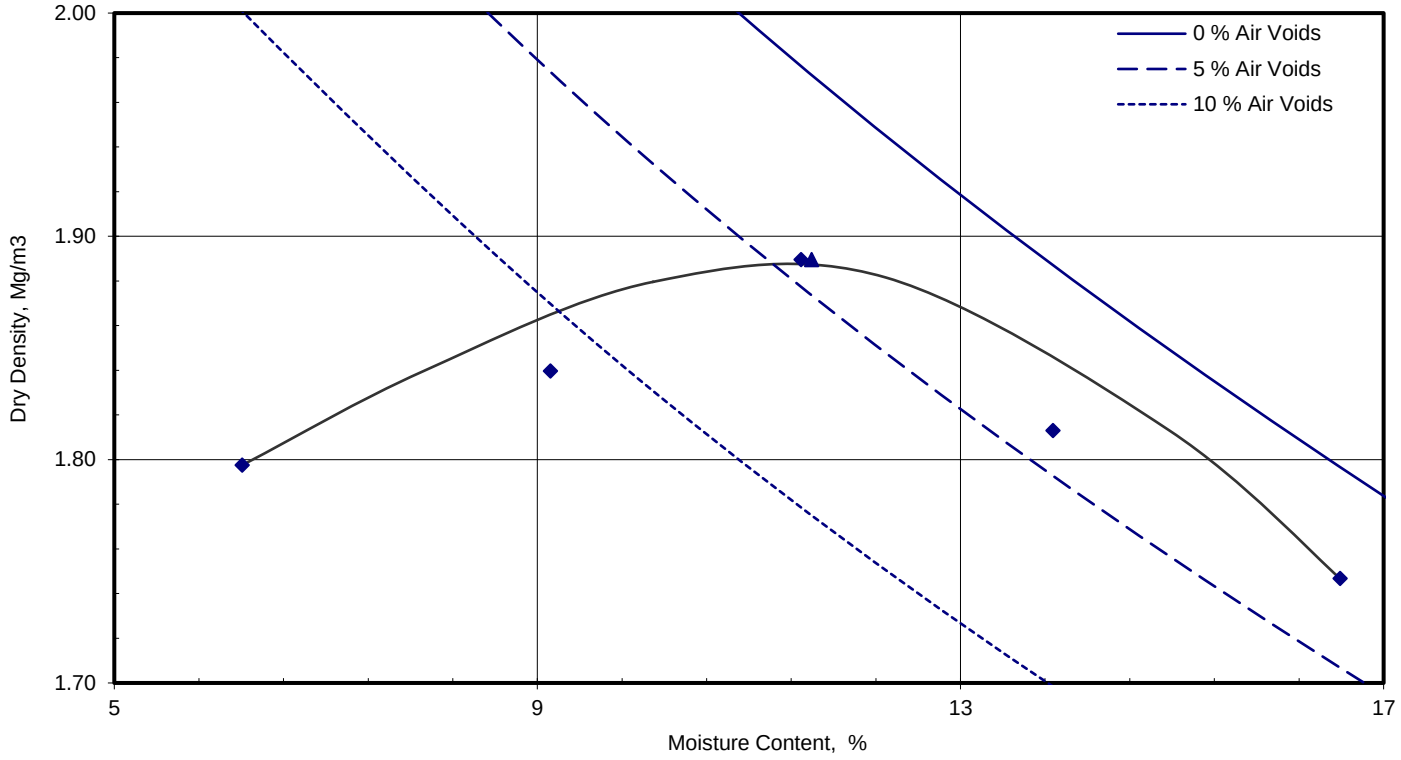
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	14/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128605	Depth Top [m]:	0.30
Hole No.:	TP716	Depth Base [m]:	0.60
Sample Reference:	2	Sample Type:	B
Sample Description:	Dark brown clayey sandy GRAVEL		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	6.2	9.1	11	14	17
Dry Density	Mg/m³	1.80	1.84	1.89	1.81	1.75

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	9
Material Retained on 20.0 mm Sieve	%	36
Particle Density - Measured using gas jar	Mg/m³	2.56
As received Moisture Content	%	12
Maximum Dry Density	Mg/m³	**1.89**

Optimum Moisture Content	%	**12**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request
Preliminary report 2

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Katarzyna Koziel
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Date Reported: 19/01/2022

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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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Northampton NN4 7EB

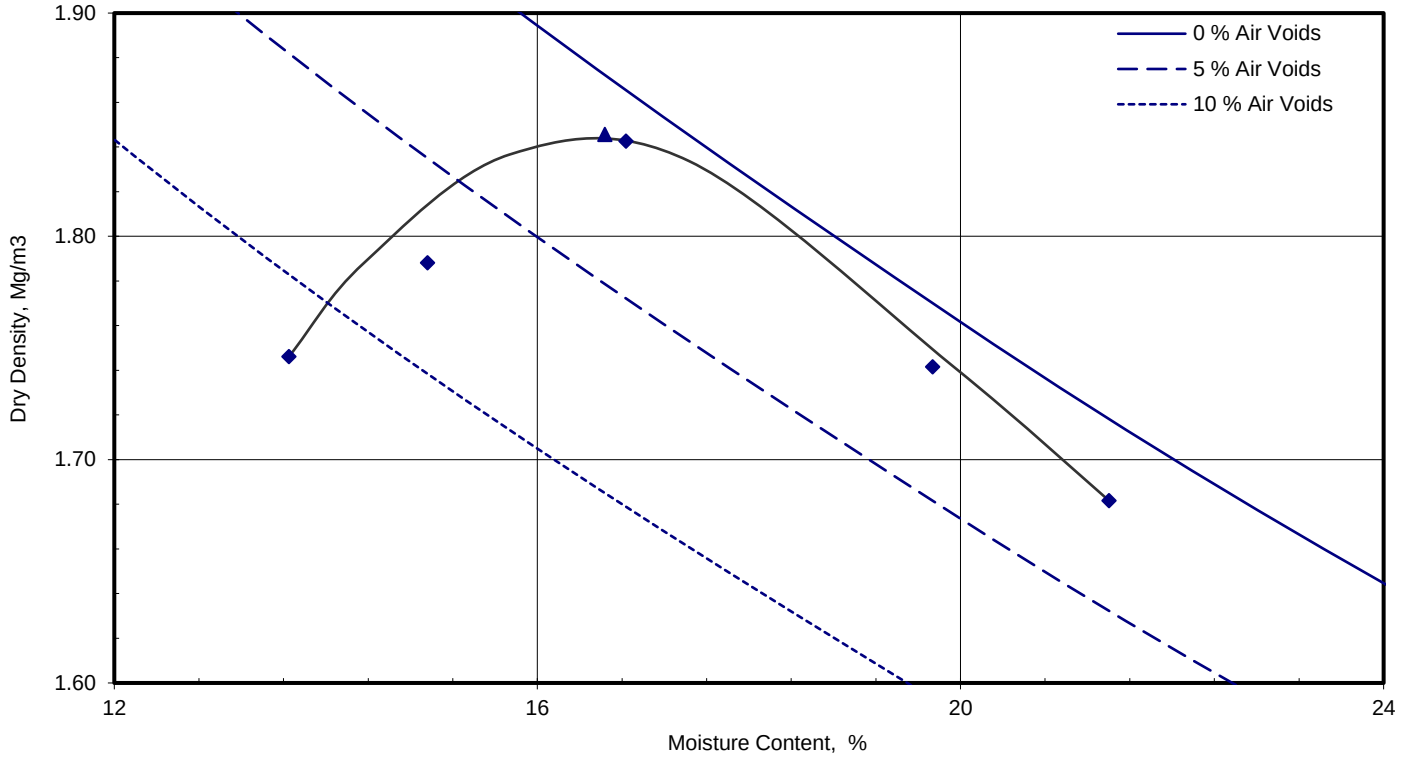
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128607	Depth Top [m]:	1.20
Hole No.:	TP715	Depth Base [m]:	1.40
Sample Reference:	6	Sample Type:	B
Sample Description:	Brown 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	%	14	15	17	20	21
Dry Density	Mg/m³	1.75	1.79	1.84	1.74	1.68

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Measured using gas jar	Mg/m³	2.72
As received Moisture Content	%	20
Maximum Dry Density	Mg/m³	**1.85**

Optimum Moisture Content	%	**17**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Preliminary report 2

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Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

UKAS TESTING 4041

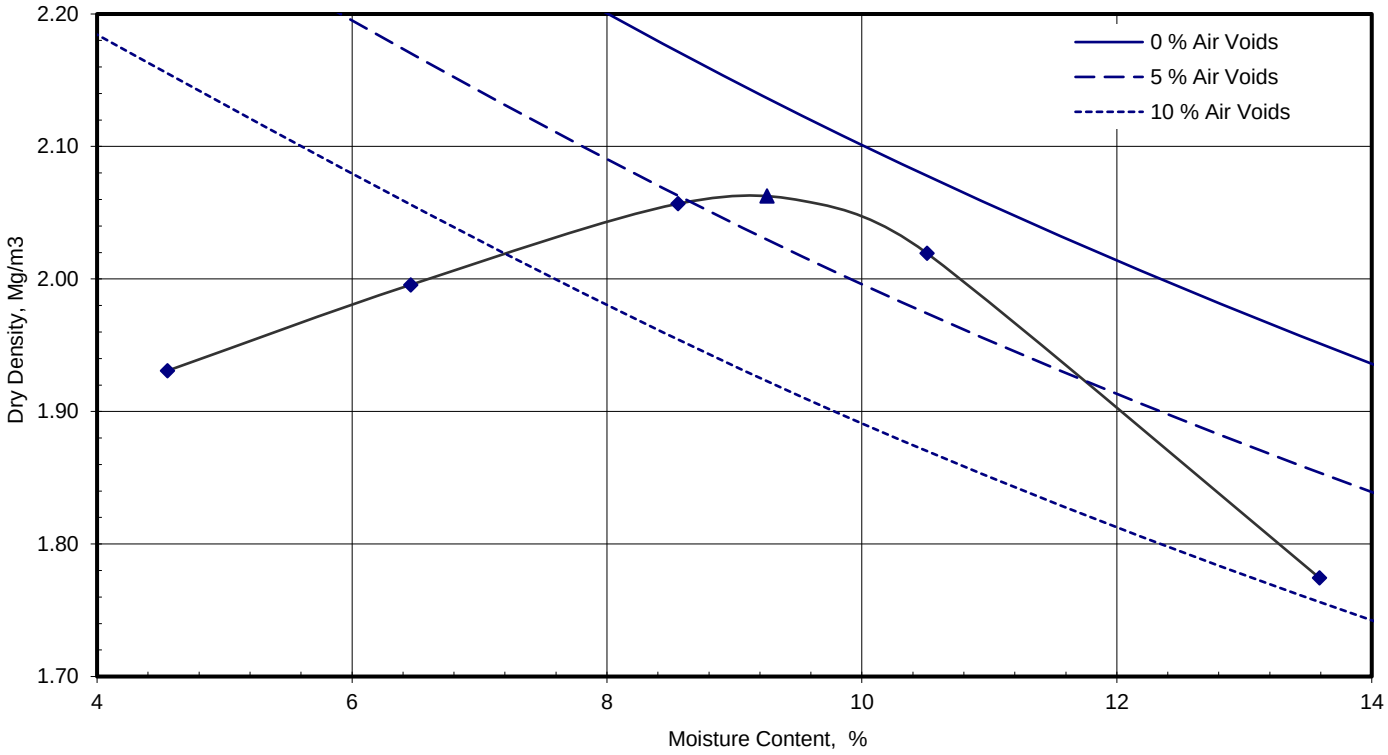
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128603	Depth Top [m]:	0.20
Hole No.:	TP709	Depth Base [m]:	0.50
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL with cobbles		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	4.6	6.5	8.6	11	14
Dry Density	Mg/m³	1.93	2.00	2.06	2.02	1.77

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	15
Material Retained on 20.0 mm Sieve	%	35
Particle Density - Measured using gas jar	Mg/m³	2.66
As received Moisture Content	%	9.0
Maximum Dry Density	Mg/m³	**2.06**

Optimum Moisture Content	%	**9.3**

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
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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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

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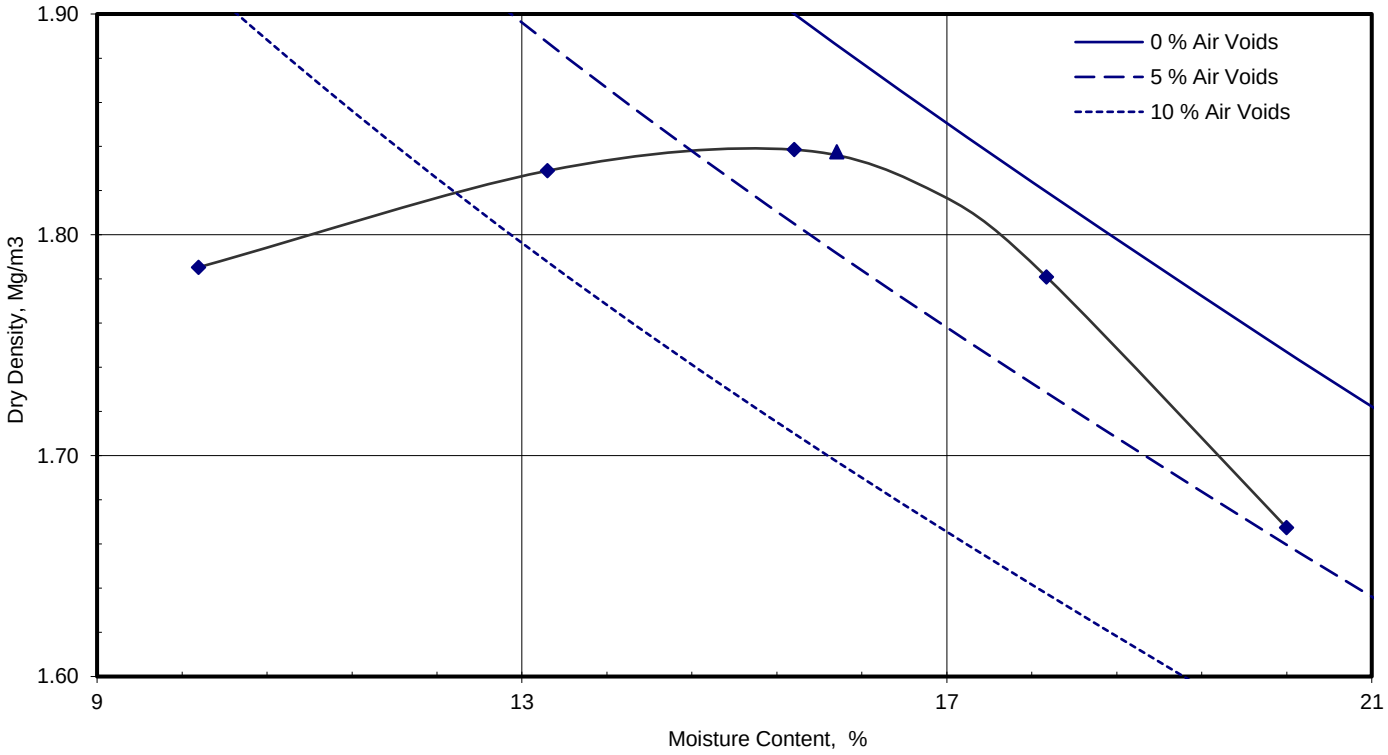
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128613	Depth Top [m]:	3.00
Hole No.:	MPBH705	Depth Base [m]:	4.00
Sample Reference:	5	Sample Type:	B
Sample Description:	Brown gravelly very sandy very clayey 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	%	10.0	13	16	18	20
Dry Density	Mg/m³	1.79	1.83	1.84	1.78	1.67

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	7
Material Retained on 20.0 mm Sieve	%	11
Particle Density - Measured using gas jar	Mg/m³	2.70
As received Moisture Content	%	17
Maximum Dry Density	Mg/m³	**1.84**

Optimum Moisture Content	%	**16**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.6 using 4.5kg [heavy] Rammer

Remarks: Preliminary report 2

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Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 110.22

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

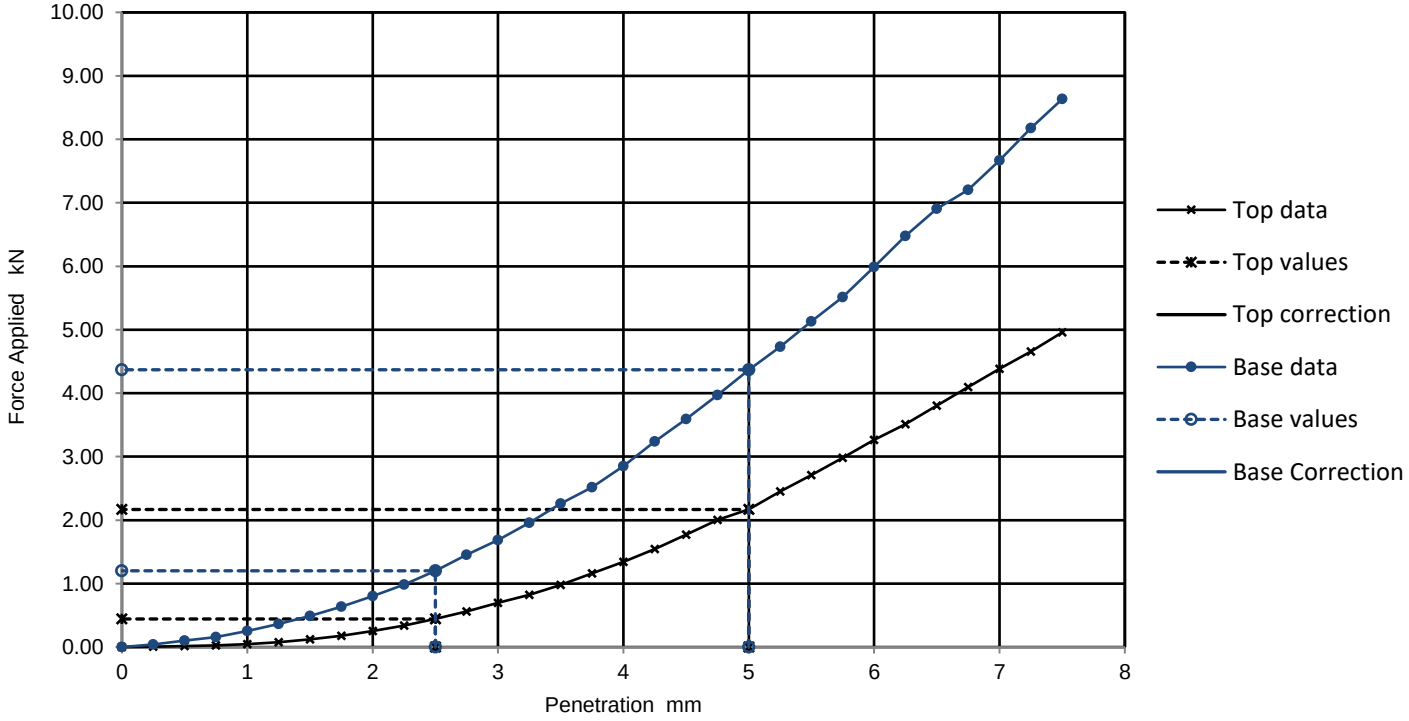
Laboratory Reference:	2128595	Depth Top [m]:	0.30
Hole No.:	WS704	Depth Base [m]:	0.40
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown gravelly sandy CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	38 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.10	Mg/m3	Surcharge applied	8 kg
	Dry density	1.79	Mg/m3		11.7 kPa
	Moisture content	18	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3.4	11.0	11.0		18
BASE	No	9.1	22.0	22.0		18

Remarks:	Test carried out with > 25 % retained on 20mm as per clause 7.2.1.2	Test/ Specimen specific remarks:	Preliminary report 2

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

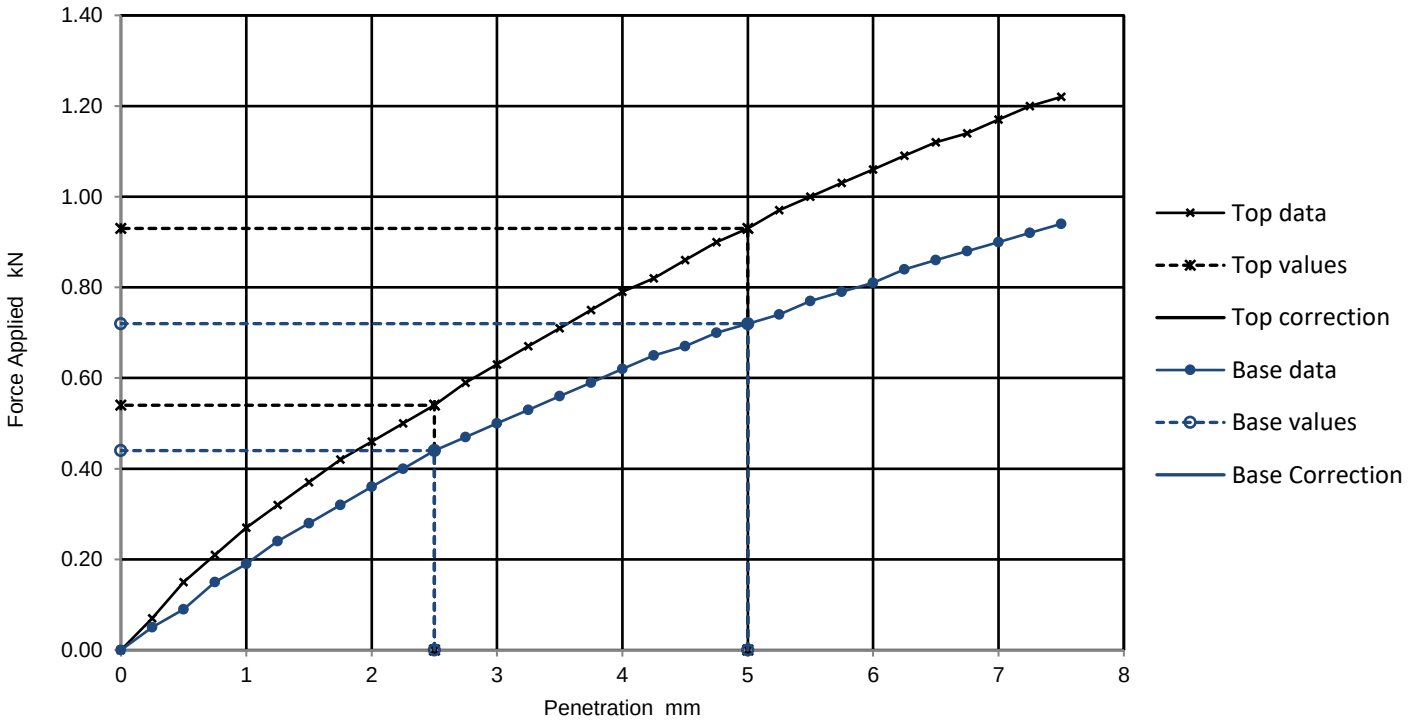
Laboratory Reference:	2128596	Depth Top [m]:	2.50
Hole No.:	WS704	Depth Base [m]:	3.00
Sample Reference:	9	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	2 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.17	Mg/m3	Surcharge applied	8 kg
	Dry density	1.86	Mg/m3		11.7 kPa
	Moisture content	16	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	4.1	4.7	4.7		16
BASE	No	3.3	3.6	3.6		16

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed: Katarzyna Koziel

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Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

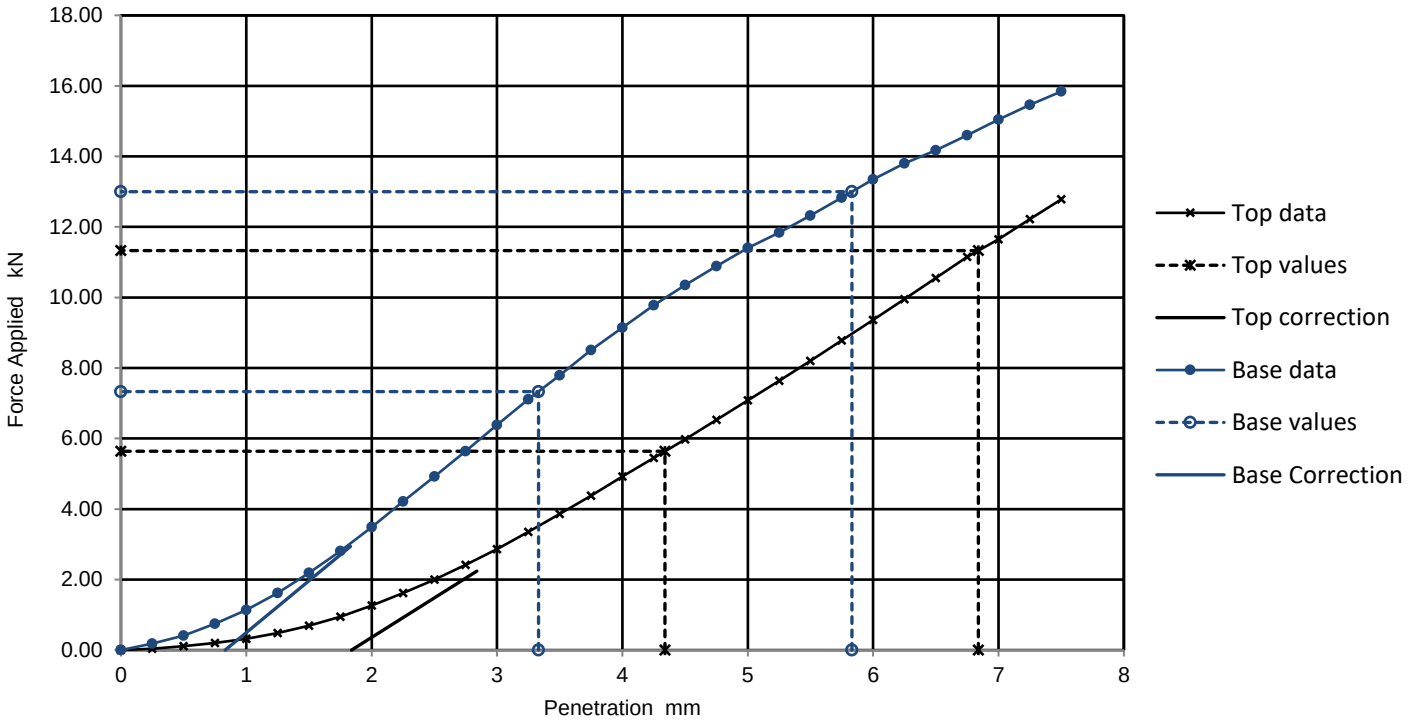
Laboratory Reference:	2128597	Depth Top [m]:	0.20
Hole No.:	TP709	Depth Base [m]:	0.50
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	7 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.20	Mg/m3	Surcharge applied	8 kg
	Dry density	2.01	Mg/m3		4.9 kPa
	Moisture content	9.6	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	43.0	57.0	57.0	61.0	9.6
BASE	Yes	56.0	65.0	65.0		8.5

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

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Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

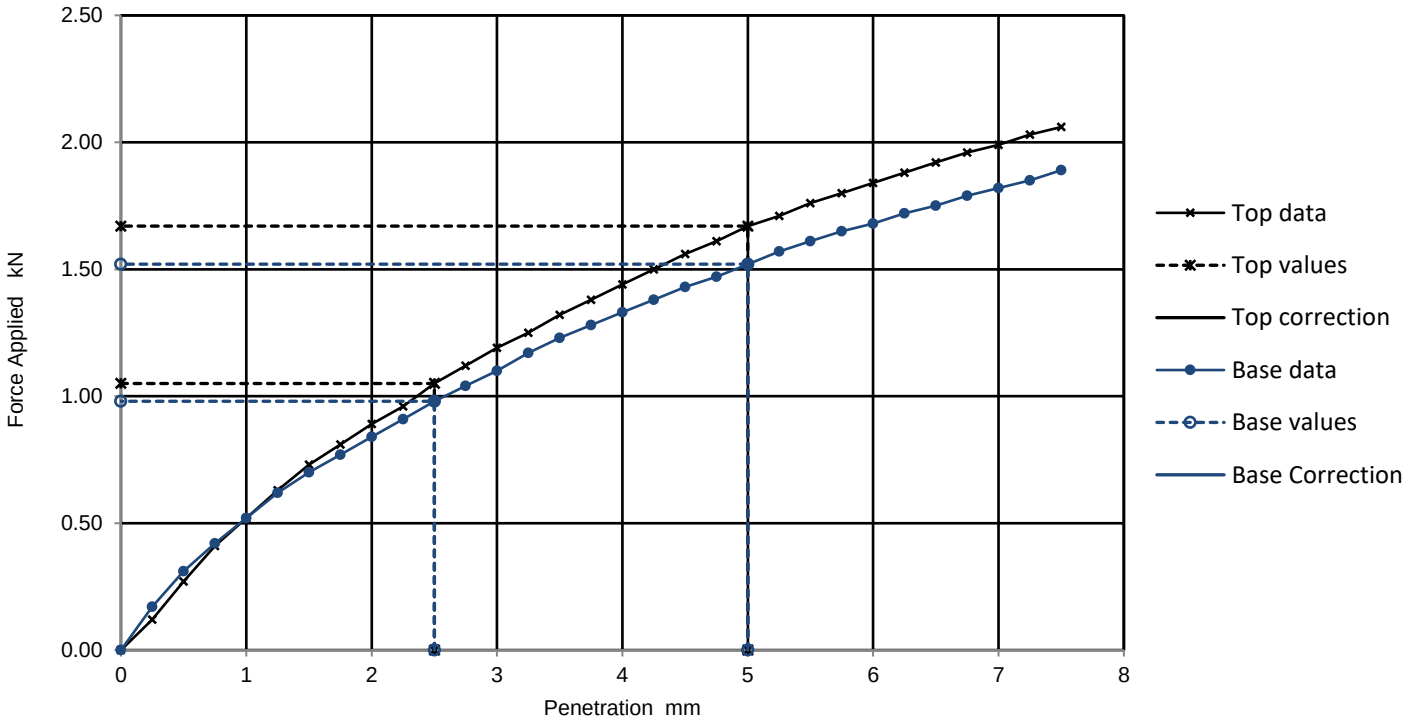
Laboratory Reference:	2128598	Depth Top [m]:	0.70
Hole No.:	WS701	Depth Base [m]:	1.20
Sample Reference:	3	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.07	Mg/m3	Surcharge applied	8 kg
	Dry density	1.76	Mg/m3		4.9 kPa
	Moisture content	18	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	8.0	8.4	8.4	8.0	18
BASE	No	7.4	7.6	7.6		18

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

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Technical Reviewer
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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

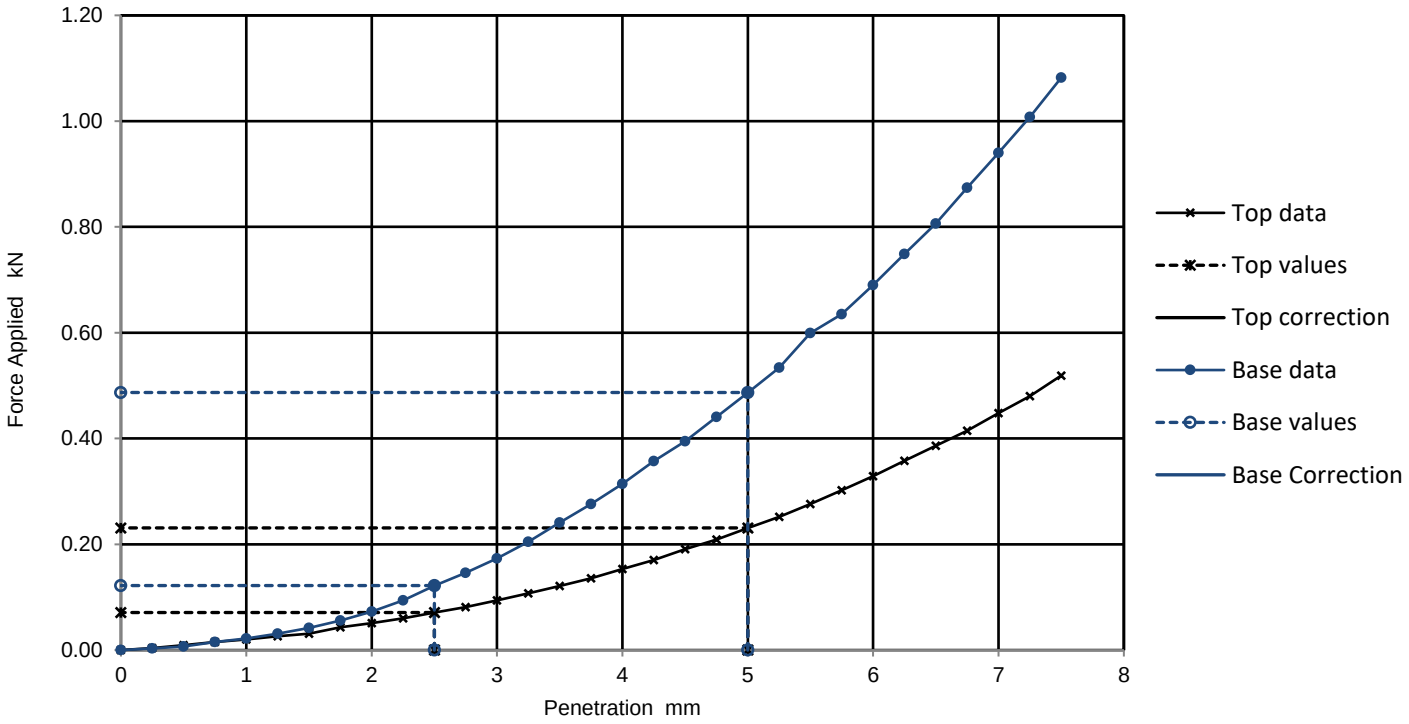
Test Results:

Laboratory Reference:	2128599	Depth Top [m]:	0.50
Hole No.:	MPBH713	Depth Base [m]:	1.20
Sample Reference:	2	Sample Type:	B
Sample Description:	Dark grey slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		13	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	2.02	Mg/m3	Surcharge applied	8 kg
	Dry density	1.69	Mg/m3		4.9 kPa
	Moisture content	20	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.5	1.2	1.2		20
BASE	No	0.9	2.4	2.4		19

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed:

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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Northampton NN4 7EB

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

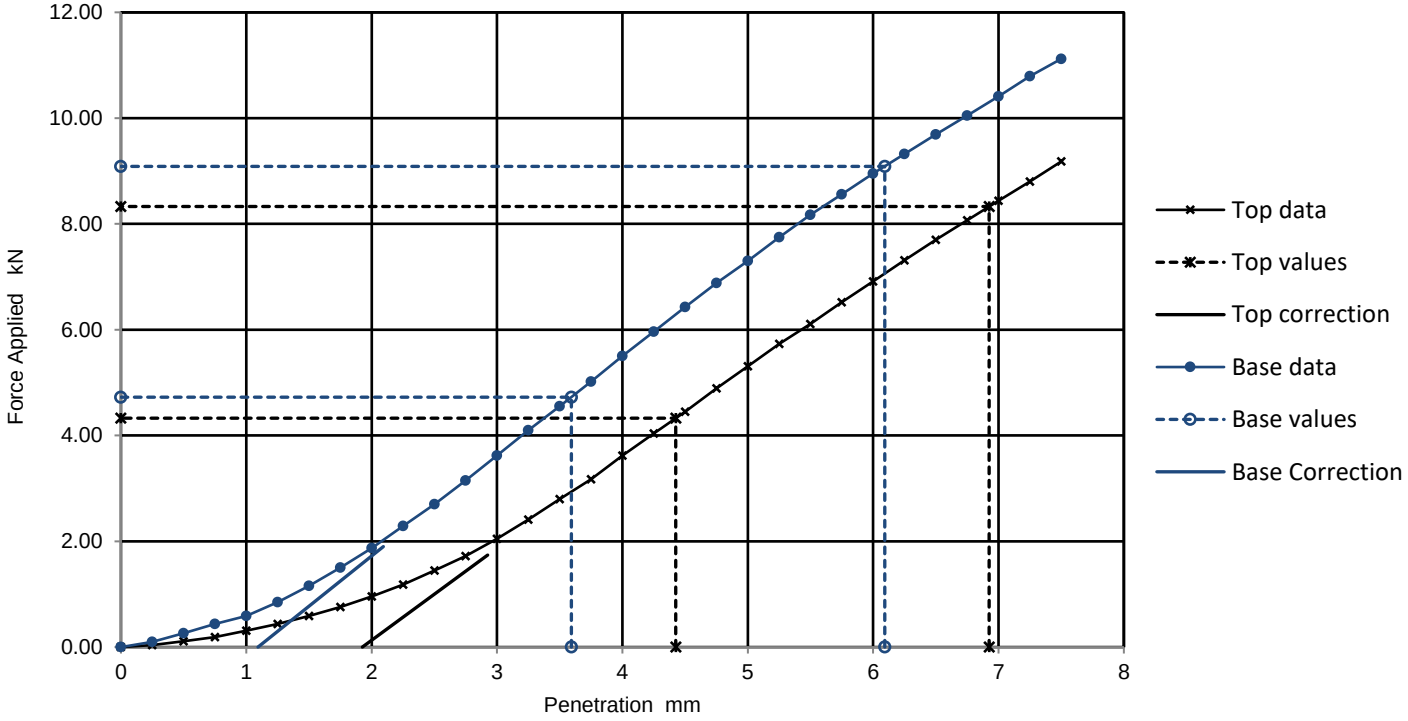
Test Results:

Laboratory Reference:	2128600	Depth Top [m]:	1.20
Hole No.:	MPBH715	Depth Base [m]:	1.70
Sample Reference:	3	Sample Type:	B
Sample Description:	Dark grey gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		39	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	2.00	Mg/m3	Surcharge applied	8 kg
	Dry density	1.76	Mg/m3		4.9 kPa
	Moisture content	14	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	33.0	42.0	42.0	44.0	13
BASE	Yes	36.0	45.0	45.0		13

Remarks:	Test carried out with > 25 % retained on 20mm as per clause 7.2.1.2	Test/ Specimen specific remarks:	Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

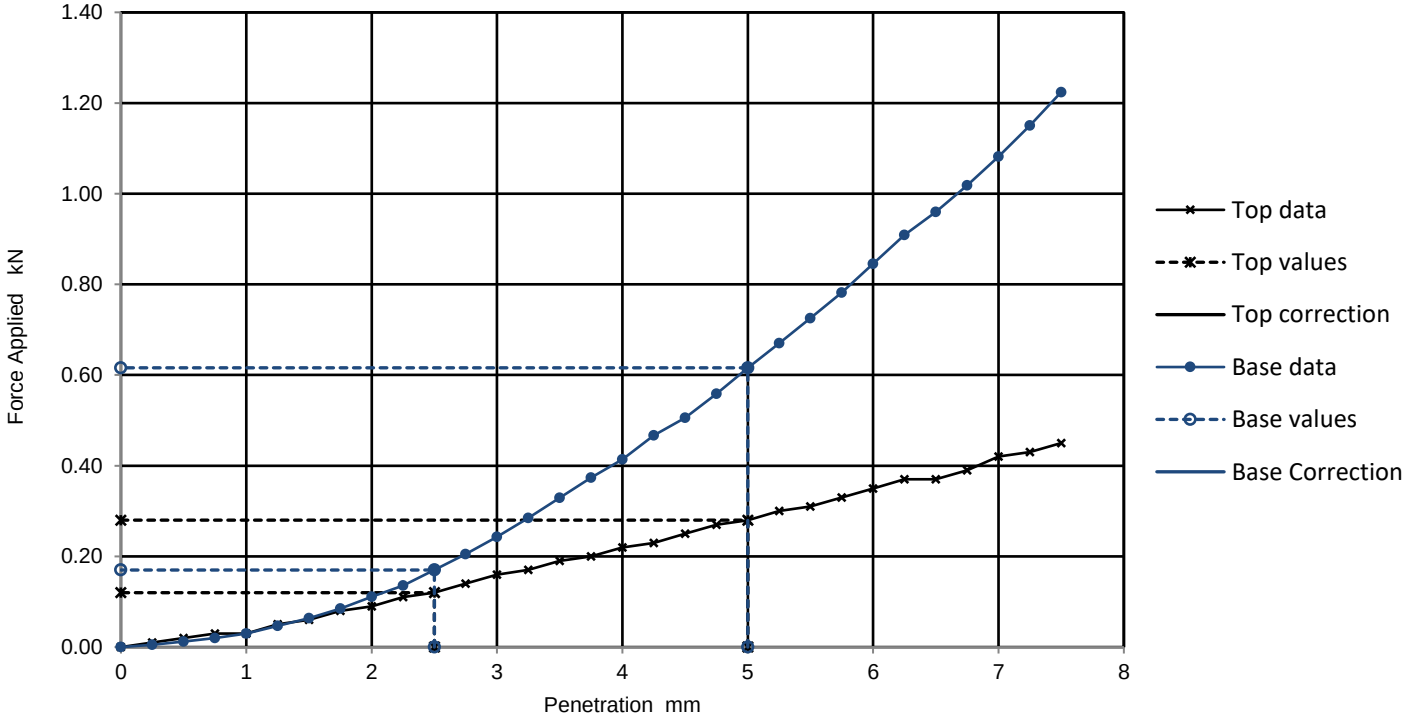
Test Results:

Laboratory Reference:	2128601	Depth Top [m]:	0.60
Hole No.:	WS702	Depth Base [m]:	1.00
Sample Reference:	2	Sample Type:	B
Sample Description:	Black gravelly clayey SAND		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		21	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.87	Mg/m3	Surcharge applied	8 kg
	Dry density	1.53	Mg/m3		4.9 kPa
	Moisture content	22	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.9	1.4	1.4		23
BASE	No	1.3	3.1	3.1		22

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top	Depth Base	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)
			m	m								mm	mm	mm	mm	kN	mm	MPa	MPa
2128672	MPBH701	13	19.25	19.31	C	Orangish brown SANDSTONE	WC = 10.3%	1	A	U	Y	-	84.6	61.0	54.0	1.2	76.3	0.20	0.24
2128673	MPBH701	14	19.42	19.50	C	Orangish brown SANDSTONE	WC = 12.1%	1	D	U	Y	45.1	87.0	78.0	73.0	0.5	79.7	0.08	0.10
2128654	MPBH702	13	19.30	19.35	C	Orangish brown SANDSTONE	WC = 12.0%	1	A	U	Y	-	86.8	38.0	35.0	0.3	62.2	0.06	0.07
2128655	MPBH702	14	19.45	19.50	C	Orangish brown SANDSTONE	WC = 12.8%	1	A	U	Y	-	86.9	36.0	20.0	0.7	47.0	0.32	0.31
2128656	MPBH702	15	20.35	20.40	C	Orangish brown SANDSTONE	WC = 13.2%	1	A	U	Y	-	89.1	39.0	37.0	0.2	64.8	0.04	0.04
2128657	MPBH702	16	20.40	20.46	C	Orangish brown SANDSTONE	WC = 12.0%	1	A	U	Y	-	84.4	69.0	59.0	0.4	79.6	0.06	0.08
2128658	MPBH702	17	21.83	21.90	C	Orangish brown SANDSTONE	WC = 11.8%	1	A	U	Y	-	82.5	52.0	44.0	0.6	68.0	0.12	0.14
2128659	MPBH702	18	21.90	21.95	C	Orangish brown SANDSTONE	WC = 11.8%	1	A	U	Y	-	86.0	43.0	40.0	0.6	66.2	0.13	0.14
2128670	MPBH705	27	19.00	19.11	C	Orangish brown SANDSTONE	WC = 10.6%	1	D	U	Y	56.2	86.0	86.0	81.0	1.3	83.5	0.19	0.24
2128663	MPBH705	19	20.70	20.80	C	Orangish brown SANDSTONE	WC = 12.3%	1	D	U	Y	46.5	86.9	85.0	80.0	1.5	83.4	0.22	0.27

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top	Depth Base	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)
			m	m								mm	mm	mm	mm	kN	mm	MPa	MPa
2128664	MPBH705	20	21.12	21.26	C	Orangish brown SANDSTONE	WC = 12.6%	1	A	U	Y	-	86.8	50.0	43.0	1.9	68.9	0.39	0.45
2128671	MPBH705	28	21.30	21.40	C	Orangish brown SANDSTONE	WC = 13.1%	1	D	U	Y	53.9	87.8	85.0	84.0	0.2	85.9	0.03	0.03
2128665	MPBH705	21	21.60	21.70	C	Orangish brown SANDSTONE	WC = 14.3%	1	A	U	Y	-	86.8	56.0	51.0	1.8	75.1	0.31	0.37
2128667	MPBH705	23	22.33	22.46	C	Orangish brown SANDSTONE	WC = 11.1%	1	A	U	Y	-	86.5	60.0	51.0	1.5	74.9	0.27	0.32
2128668	MPBH705	24	22.68	22.80	C	Orangish brown SANDSTONE	WC = 13.8%	1	A	U	Y	-	86.6	43.0	36.0	1.4	63.0	0.35	0.39
2128621	MPBH706	15	17.10	17.20	C	Orangish brown SANDSTONE	WC = 9.6%	1	D	U	Y	56.7	82.8	82.0	79.0	0.8	80.9	0.12	0.15
2128625	MPBH706	22	19.30	19.43	C	Orangish brown SANDSTONE	WC = 9.3%	1	A	U	Y	-	84.7	58.0	51.0	1.3	74.2	0.24	0.28
2128629	MPBH707	18	16.75	16.83	C	Orangish brown SANDSTONE	WC = 9.8%	1	A	U	Y	-	85.4	28.0	23.0	0.8	50.0	0.30	0.30
2128635	MPBH709	30	16.28	16.38	C	Orangish brown SANDSTONE	WC = 11.5%	1	D	U	Y	58.1	85.8	82.0	80.0	0.6	82.8	0.08	0.10
2128637	MPBH709	23	16.38	16.50	C	Orangish brown SANDSTONE	WC = 11.6%	1	D	U	Y	62.6	85.4	87.0	84.0	0.3	84.7	0.03	0.04

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm	kN	mm	Is MPa	Is(50) MPa
2128638	MPBH709	24	16.74	16.83	C	Orangish brown SANDSTONE	WC = 12.2%	1	A	U	Y	-	83.5	69.0	65.0	0.5	83.1	0.07	0.09
2128639	MPBH709	25	17.45	17.53	C	Orangish brown SANDSTONE	WC = 11.3%	1	A	U	Y	-	85.7	34.0	30.0	0.8	57.2	0.23	0.24
2128640	MPBH709	26	17.80	17.88	C	Orangish brown SANDSTONE	WC = 11.8%	1	D	U	Y	52.2	85.1	85.0	82.0	0.4	83.5	0.05	0.06
2128636	MPBH709	31	18.03	18.10	C	Orangish brown SANDSTONE	WC = 11.7%	1	A	U	Y	-	87.4	45.0	40.0	0.8	66.7	0.17	0.19
2128641	MPBH709	27	18.40	18.50	C	Orangish brown SANDSTONE	WC = 11.0%	1	A	P	Y	-	86.2	62.0	57.0	1.2	79.1	0.19	0.24
2128631	MPBH711	18	17.30	17.47	C	Orangish brown SANDSTONE	WC = 11.2%	1	A	U	Y	-	85.2	53.0	48.0	0.8	72.2	0.14	0.17
2128632	MPBH711	19	17.75	17.87	C	Orangish brown SANDSTONE	WC = 10.5%	1	A	U	Y	-	86.4	70.0	62.0	1.3	82.6	0.18	0.23
2128630	MPBH711	22	19.37	19.44	C	Orangish brown SANDSTONE	WC = 12.0%	1	A	U	Y	-	85.8	63.0	58.0	1.2	79.6	0.19	0.23
2128650	MPBH713	28	19.22	19.36	C	Orangish brown SANDSTONE	WC = 11.7%	1	A	U	Y	-	86.5	78.0	48.0	1.7	72.7	0.32	0.38
2128652	MPBH713	30	20.17	20.30	C	Orangish brown SANDSTONE	WC = 15.2%	1	A	U	Y	-	82.4	57.0	48.0	0.8	71.0	0.15	0.17

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm	kN	mm	Is MPa	Is(50) MPa
2128653	MPBH713	31	20.65	20.75	C	Orangish brown SANDSTONE	WC = 13.1%	1	A	U	Y	-	86.5	58.0	50.0	1.2	74.2	0.21	0.25
2128643	MPBH715	25	16.87	16.90	C	Orangish brown SANDSTONE	WC = 10.5%	1	A	U	Y	-	85.1	25.0	21.0	0.8	47.7	0.33	0.32

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

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Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF UNIAXIAL COMPRESSIVE STRENGTH OF ROCK MATERIALS

Tested in Accordance with: ISRM, 2007, p153, part 1

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Specimen Dimensions (2)				Bulk density (2)	Water Content (1)	Uniaxial Compression (3)			
		Reference	Depth Top m	Depth Base m	Type			Diameter mm	Length mm	H/D	Orientation of sample	Mg/m3	%	Condition	Stress Rate Mpa/s	Mode of failure	UCS Mpa
2128660	MPBH705	16	19.11	19.27	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.9	121.5	1.4	Vertical	2.08	10.3	as received	0.0173	MS + AC	9.55
2128661	MPBH705	17	19.40	19.59	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.4	154.6	1.8	Vertical	2.11	11.2	as received	0.0170	S	9.54
2128662	MPBH705	18	19.80	20.10	C	Orangish brown SANDSTONE	Duration of test, fell below time specified in ISRM method, 2007, p153, part1.	86.5	247.8	2.9	Vertical	2.09	13.2	as received	0.0340	S	7.06
2128666	MPBH705	22	21.88	22.20	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.5	79.0	0.9	Vertical	2.12	12.8	as received	0.0170	S + AC	6.68
2128669	MPBH705	25	22.95	23.20	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.6	190.8	2.2	Vertical	2.12	14.7	as received	0.0170	S + AC	5.72
2128622	MPBH706	16	17.20	17.85	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	83.0	70.8	0.9	Vertical	2.07	9.7	as received	0.0185	MS + AC	13.1
2128623	MPBH706	17	18.20	18.45	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.0	145.1	1.7	Vertical	2.10	9.7	as received	0.0172	S + AC	9.56
2128624	MPBH706	18	18.68	18.86	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.4	147.3	1.7	Vertical	2.05	10.7	as received	0.0171	S	9.14
2128626	MPBH706	23	20.15	20.45	C	Orangish brown SANDSTONE	Duration of test, fell below time specified in ISRM method, 2007, p153, part1.	85.6	224.9	2.6	Vertical	2.10	9.0	as received	0.0347	MS	8.21
2128627	MPBH706	24	20.45	20.60	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.4	186.9	2.2	Vertical	2.09	9.9	as received	0.0175	S	8.14

Note: 1 - ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS, 2 - ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density, 3 - ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials, above notes apply unless annotated otherwise in the remarks. Compaction machine: VJ Tech AUTOCON - VJT 51-3011; Mode of failure legend: S - Single shear, MS - multiple shear, AC - Axial cleavage, F - Fragmented

Comments: * Duration of test exceeded time specified in ISRM method, 2007, p153, part1.
** Duration of test, fell below time specified in ISRM method, 2007, p153, part1. Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 223.14

SUMMARY REPORT

DETERMINATION OF UNIAXIAL COMPRESSIVE STRENGTH OF ROCK MATERIALS

Tested in Accordance with: ISRM, 2007, p153, part 1

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Specimen Dimensions (2)				Bulk density (2)	Water Content (1)	Uniaxial Compression (3)			
		Reference	Depth Top m	Depth Base m	Type			Diameter mm	Length mm	H/D	Orientation of sample	Mg/m3	%	Condition	Stress Rate Mpa/s	Mode of failure	UCS Mpa
2128628	MPBH706	25	21.00	21.21	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.*	85.2	180.1	2.1	Vertical	2.12	8.6	as received	0.0175	S	14.0
2128633	MPBH711	20	18.50	18.65	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.7	116.6	1.4	Vertical	2.08	10.9	as received	0.0174	S	10.5
2128634	MPBH711	21	18.96	19.11	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.1	125.7	1.5	Vertical	2.10	10.3	as received	0.0176	MS + AC	10.1
2128647	MPBH713	25	17.75	18.00	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.6	182.3	2.1	Vertical	2.05	9.9	as received	0.0170	MS + AC	8.00
2128648	MPBH713	26	18.47	18.63	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.**	85.9	111.1	1.3	Vertical	2.04	10.7	as received	0.0345	S + AC	6.66
2128649	MPBH713	27	18.70	18.96	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.**	86.4	204.8	2.4	Vertical	2.04	9.2	as received	0.0171	MS + AC	4.81
2128651	MPBH713	29	19.90	20.10	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.8	181.6	2.1	Vertical	2.02	13.3	as received	0.0173	S + AC	7.08

Note: 1 - ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS, 2 - ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density, 3 - ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials, above notes apply unless annotated otherwise in the remarks. Compaction machine: VJ Tech AUTOCON - VJT 51-3011; Mode of failure legend: S - Single shear, MS - multiple shear, AC - Axial cleavage, F - Fragmented

Comments: * Duration of test exceeded time specified in ISRM method, 2007, p153, part1.
** Duration of test, fell below time specified in ISRM method, 2007, p153, part1. Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 223.14

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

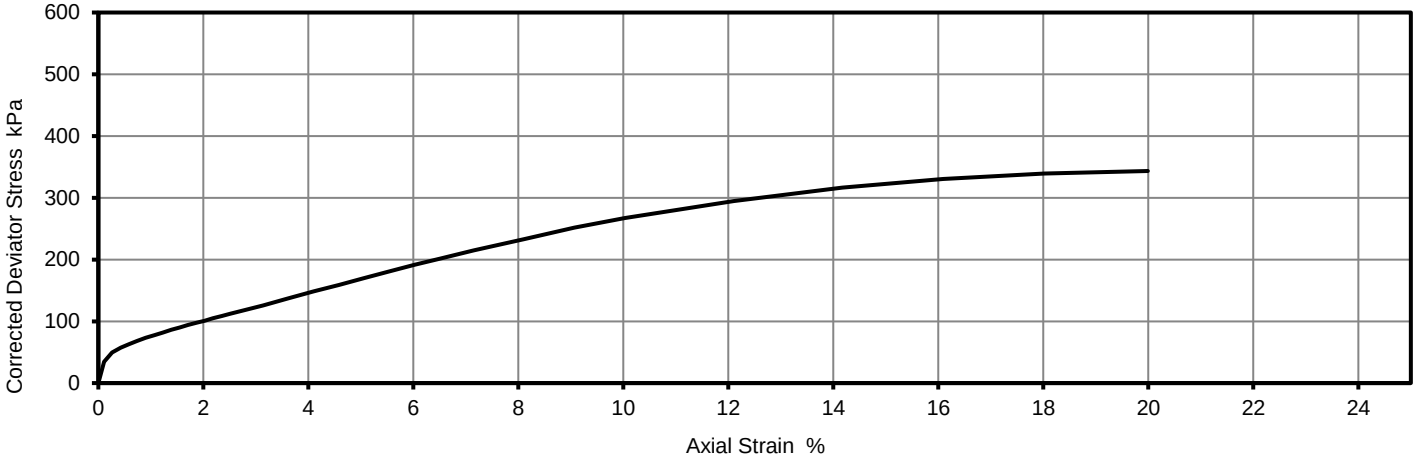
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

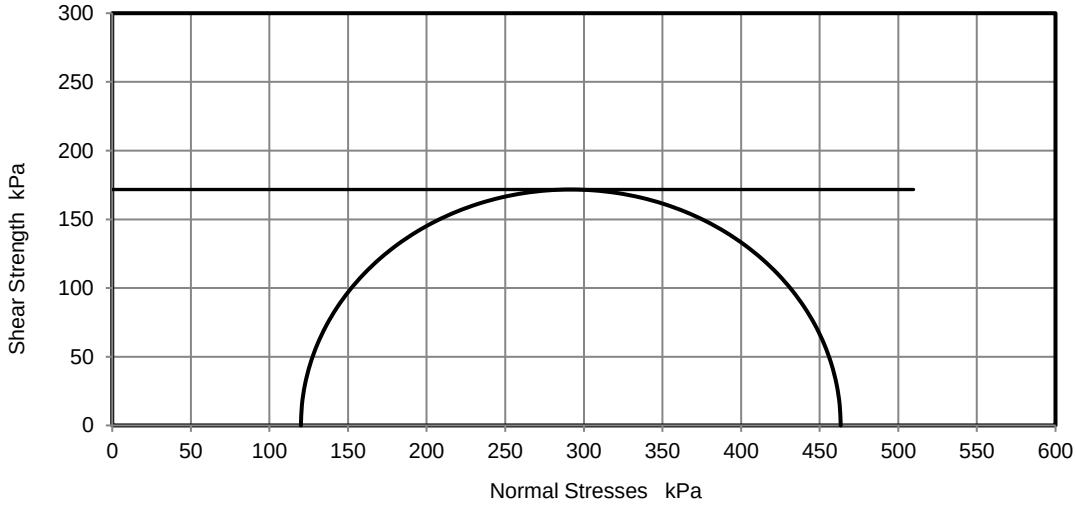
Laboratory Reference:	2128558	Depth Top [m]:	7.00
Hole No.:	MPBH703	Depth Base [m]:	7.45
Sample Reference:	8	Sample Type:	U
Sample Description:	Brown gravelly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.96	%/min
Length	204.55	mm	Cell Pressure	120	kPa
Diameter	103.74	mm	Axial Strain at failure	20.0	%
Bulk Density	2.13	Mg/m3	Deviator Stress, (σ1 - σ3)f	343	kPa
Moisture Content	14	%	Undrained Shear Strength, cu	172	kPa ½(σ1 - σ3)f
Dry Density	1.86	Mg/m3	Mode of Failure	Compound	
Membrane Correction	1.07	kPa	Membrane thickness	0.29	mm

Deviator Stress v Axial Strain

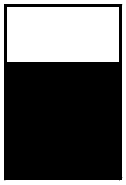


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

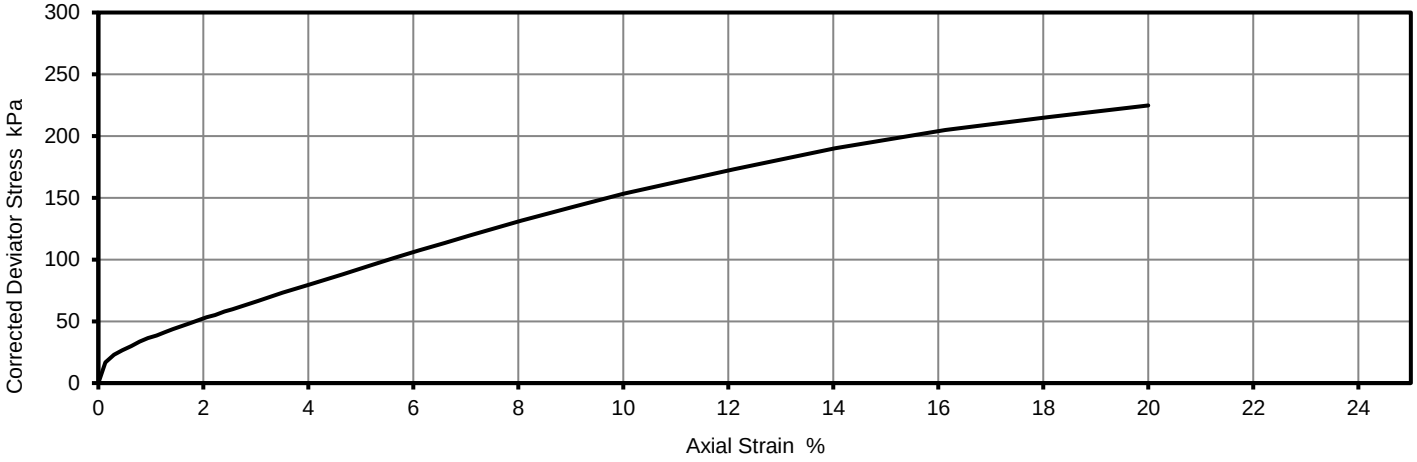
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

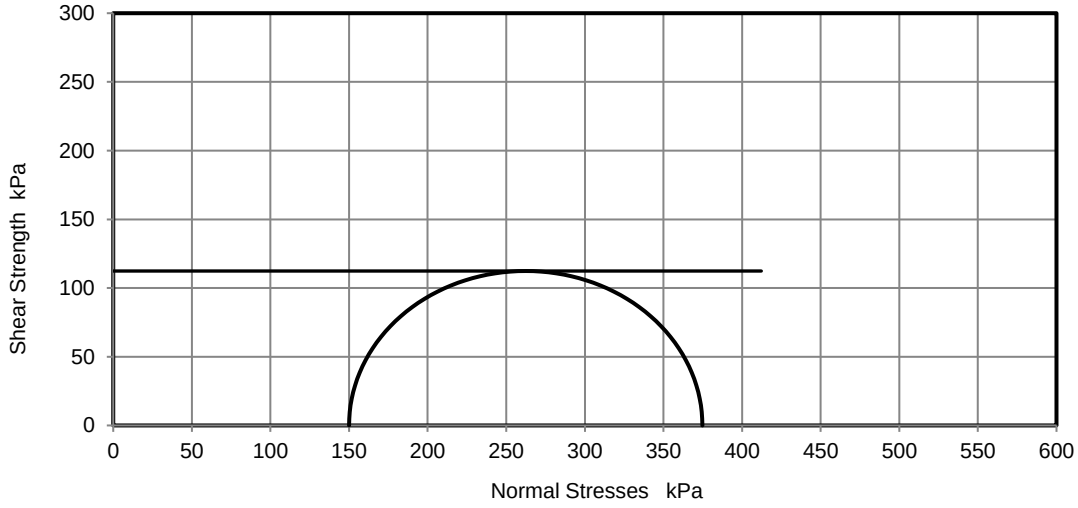
Laboratory Reference:	2128560	Depth Top [m]:	7.50
Hole No.:	MPBH709	Depth Base [m]:	7.95
Sample Reference:	11	Sample Type:	U
Sample Description:	Brown slightly gravelly CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.98	%/min
Length	202.42	mm	Cell Pressure	150	kPa
Diameter	102.18	mm	Axial Strain at failure	20.0	%
Bulk Density	2.14	Mg/m3	Deviator Stress, (σ1 - σ3)f	225	kPa
Moisture Content	19	%	Undrained Shear Strength, cu	112	kPa ½(σ1 - σ3)f
Dry Density	1.79	Mg/m3	Mode of Failure	Compound	
Membrane Correction	0.83	kPa	Membrane thickness	0.22	mm

Deviator Stress v Axial Strain

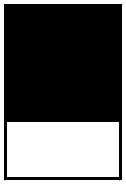


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

UKAS TESTING
4041

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

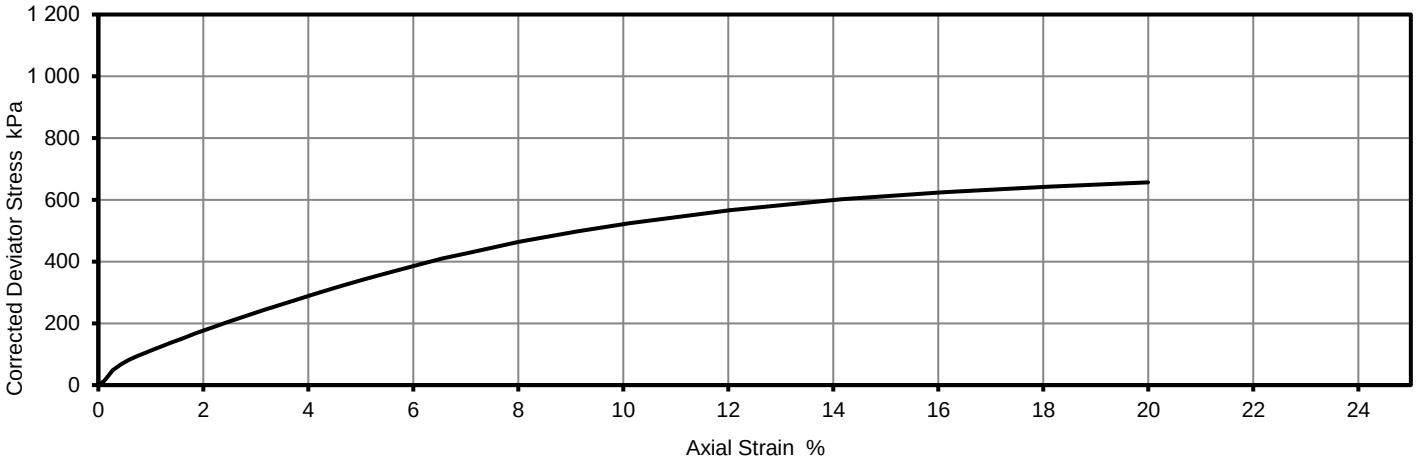
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

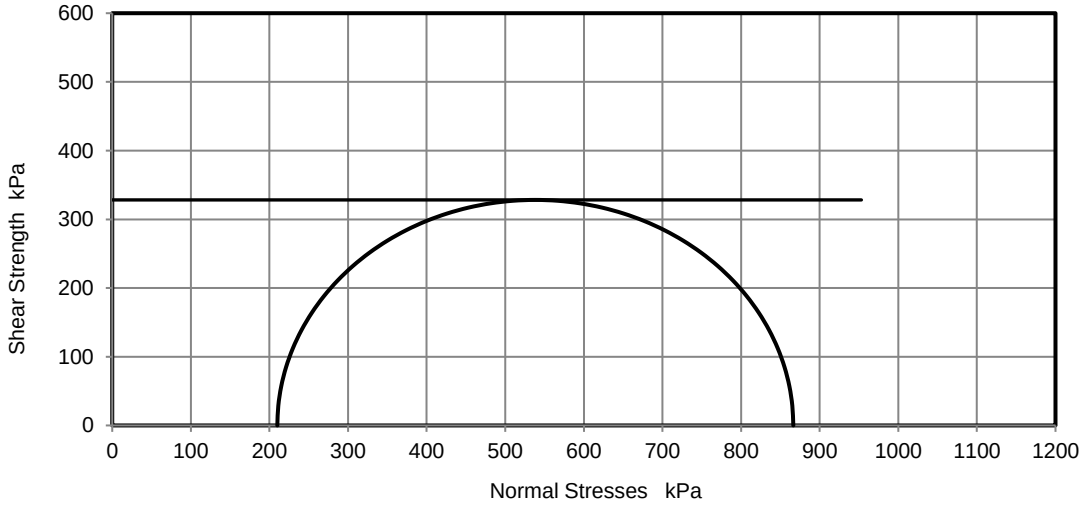
Laboratory Reference:	2128561	Depth Top [m]:	10.50
Hole No.:	MPBH709	Depth Base [m]:	10.95
Sample Reference:	16	Sample Type:	U
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.99	%/min
Length	201.27	mm	Cell Pressure	210	kPa
Diameter	101.68	mm	Axial Strain at failure	20.0	%
Bulk Density	2.31	Mg/m3	Deviator Stress, (σ1 - σ3)f	656	kPa
Moisture Content	11	%	Undrained Shear Strength, cu	328	kPa ½(σ1 - σ3)f
Dry Density	2.07	Mg/m3	Mode of Failure	Compound	
Membrane Correction	0.87	kPa	Membrane thickness	0.23	mm

Deviator Stress v Axial Strain

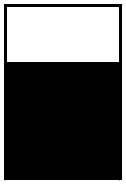


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 184.12

UKAS TESTING
4041

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

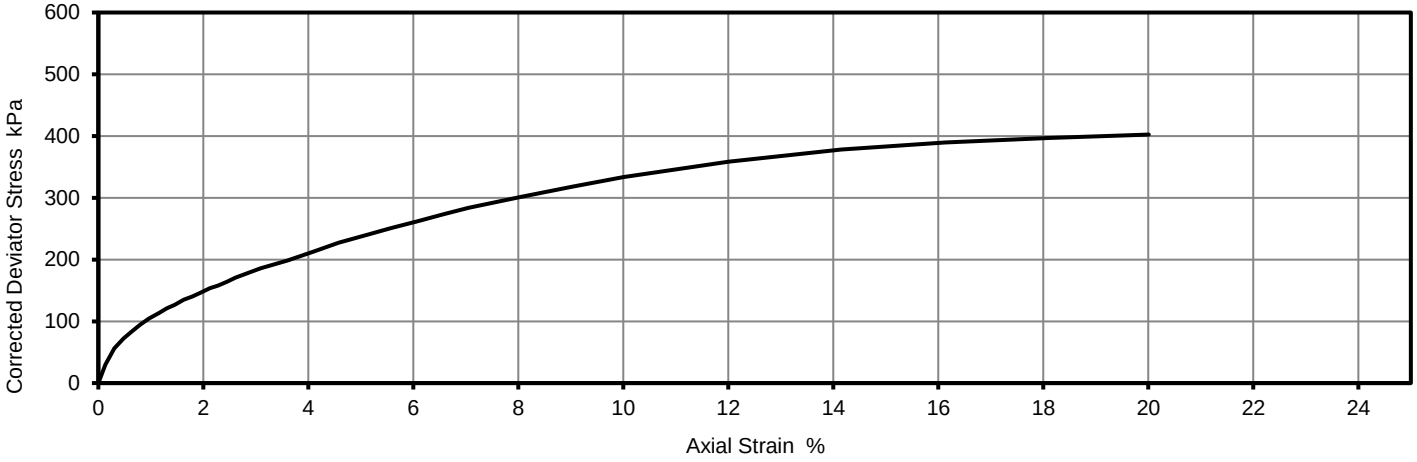
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

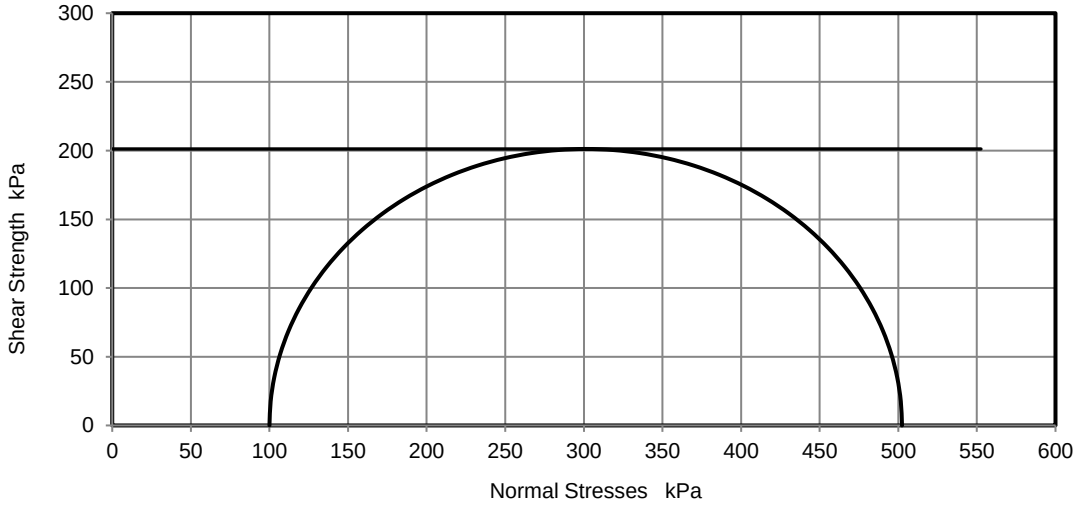
Laboratory Reference:	2128563	Depth Top [m]:	5.00
Hole No.:	MPBH715	Depth Base [m]:	5.45
Sample Reference:	12	Sample Type:	U
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	2.00	%/min
Length	140.44	mm	Cell Pressure	100	kPa
Diameter	69.52	mm	Axial Strain at failure	20.0	%
Bulk Density	2.17	Mg/m3	Deviator Stress, (σ1 - σ3)f	402	kPa
Moisture Content	17	%	Undrained Shear Strength, cu	201	kPa ½(σ1 - σ3)f
Dry Density	1.85	Mg/m3	Mode of Failure	Compound	
Membrane Correction	1.66	kPa	Membrane thickness	0.30	mm

Deviator Stress v Axial Strain

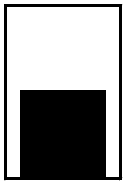


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

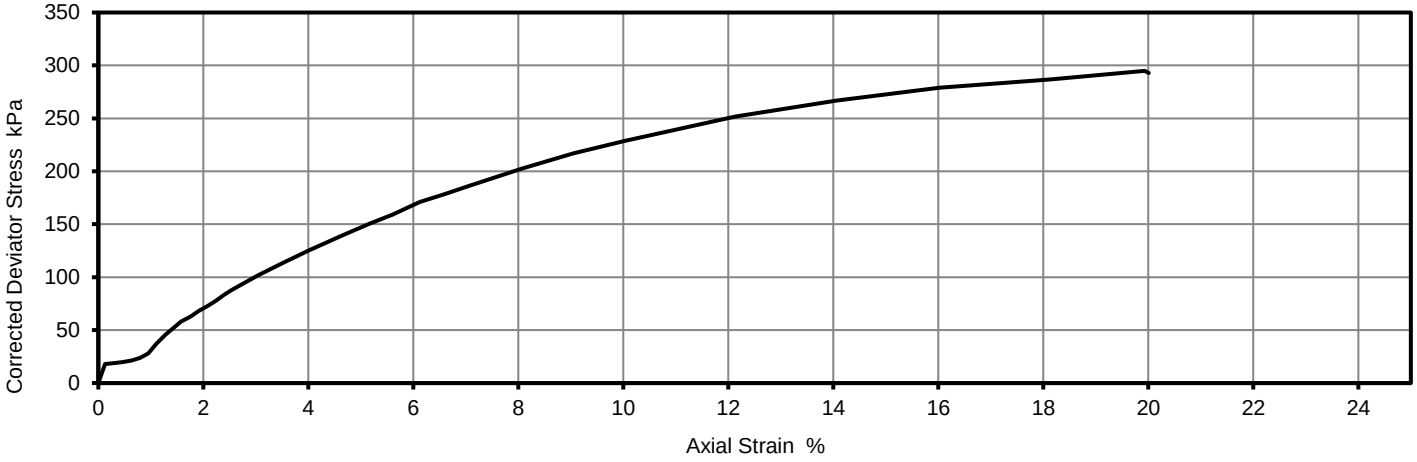
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

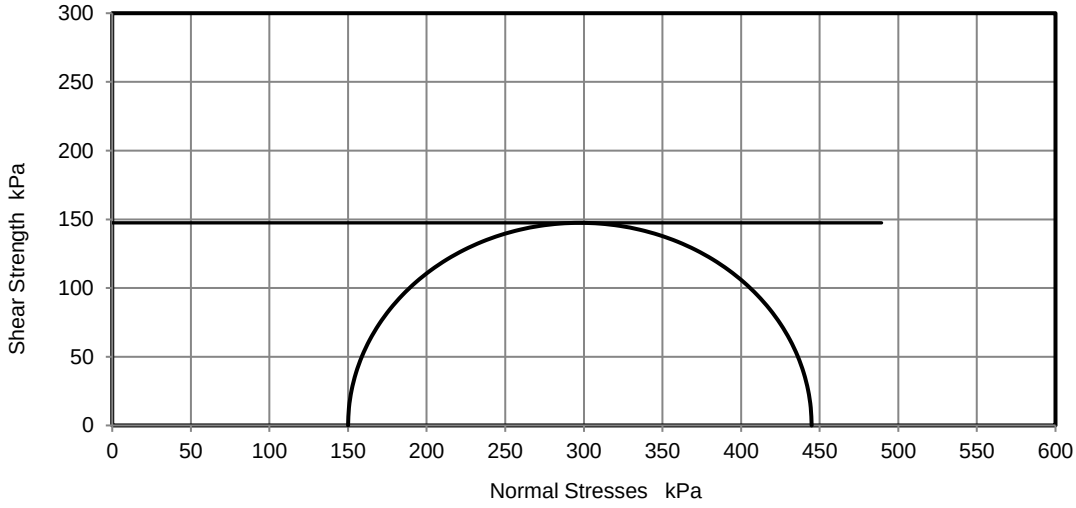
Laboratory Reference:	2128564	Depth Top [m]:	7.50
Hole No.:	MPBH715	Depth Base [m]:	7.95
Sample Reference:	16	Sample Type:	U
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.97	%/min
Length	202.97	mm	Cell Pressure	150	kPa
Diameter	101.39	mm	Axial Strain at failure	19.9	%
Bulk Density	2.20	Mg/m3	Deviator Stress, (σ1 - σ3)f	295	kPa
Moisture Content	16	%	Undrained Shear Strength, cu	147	kPa ½(σ1 - σ3)f
Dry Density	1.90	Mg/m3	Mode of Failure	Compound	
Membrane Correction	1.06	kPa	Membrane thickness	0.28	mm

Deviator Stress v Axial Strain

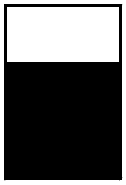


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

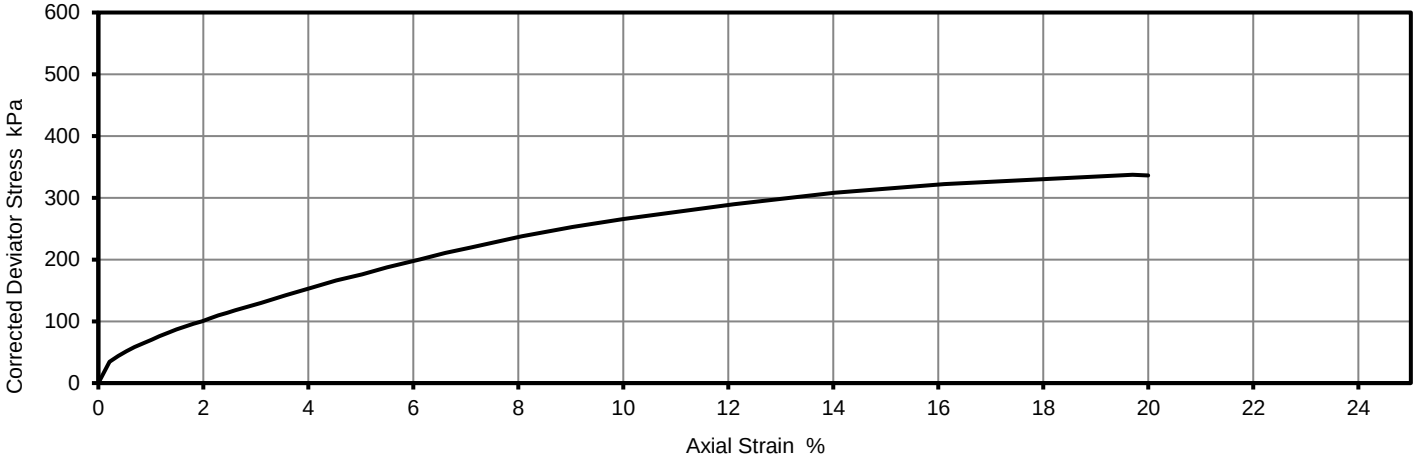
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

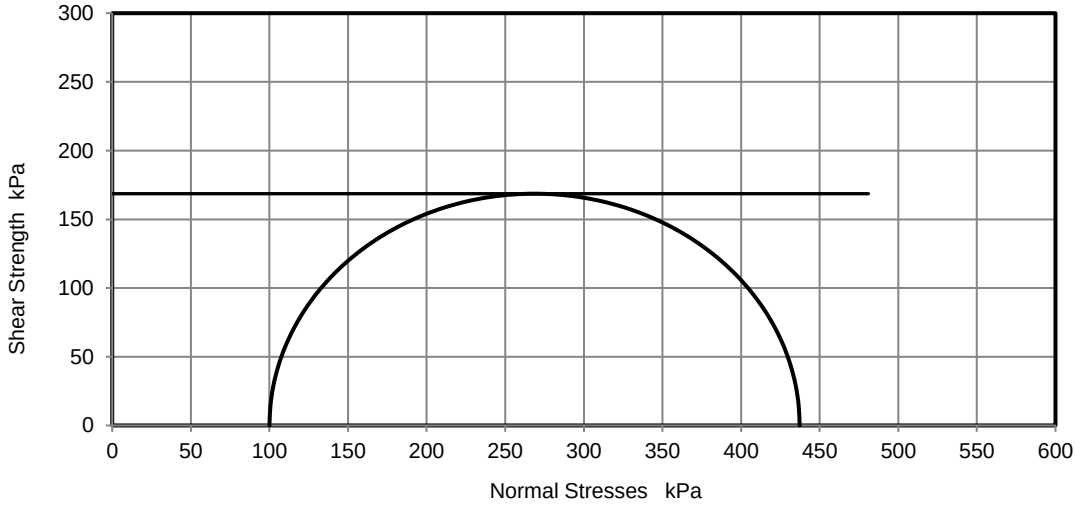
Laboratory Reference:	2128566	Depth Top [m]:	5.00
Hole No.:	MPBH713	Depth Base [m]:	5.45
Sample Reference:	12	Sample Type:	U
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.96	%/min
Length	204.14	mm	Cell Pressure	100	kPa
Diameter	102.98	mm	Axial Strain at failure	19.7	%
Bulk Density	2.15	Mg/m3	Deviator Stress, (σ1 - σ3)f	337	kPa
Moisture Content	18	%	Undrained Shear Strength, cu	169	kPa ½(σ1 - σ3)f
Dry Density	1.82	Mg/m3	Mode of Failure	Compound	
Membrane Correction	0.96	kPa	Membrane thickness	0.26	mm

Deviator Stress v Axial Strain

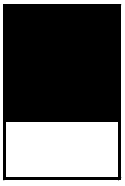


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

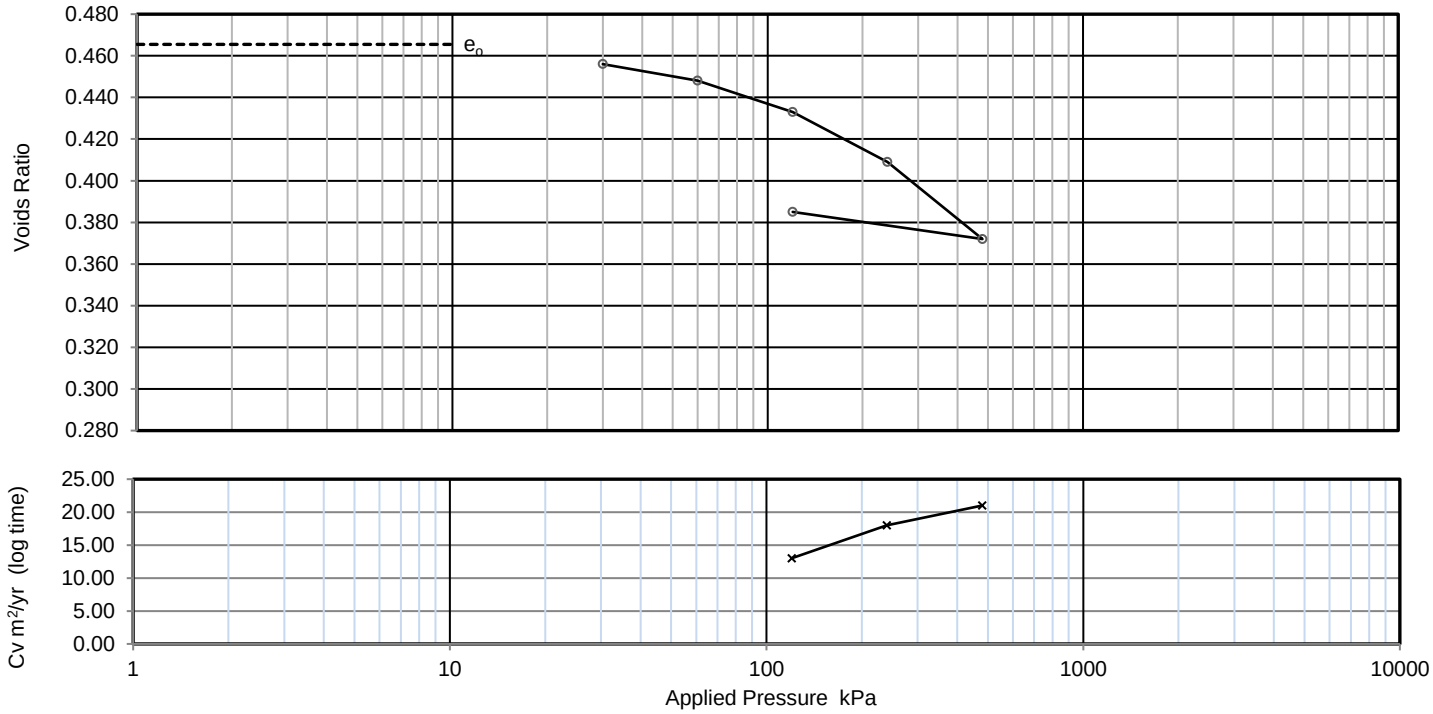
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128557	Depth Top [m]:	3.00
Hole No.:	MPBH704	Depth Base [m]:	3.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Dark brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.465	-	-	-	-
30	0.456	0.23	N/A	N/A	N/A
60	0.448	0.16	N/A	N/A	N/A
120	0.433	0.18	13	16	0.00064
240	0.409	0.14	18	17	0.00085
480	0.372	0.11	21	21	0.0013
120	0.385	0.027			

Preparation

Carried out on top of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.10	-	mm
Height	20.00	18.91	mm
Moisture Content	16	18	%
Bulk density	2.10	2.26	Mg/m3
Dry density	1.81	1.91	Mg/m3
Voids Ratio	0.465	0.385	
Saturation	90	125	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: stage1-swelling
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

UKAS TESTING 4041

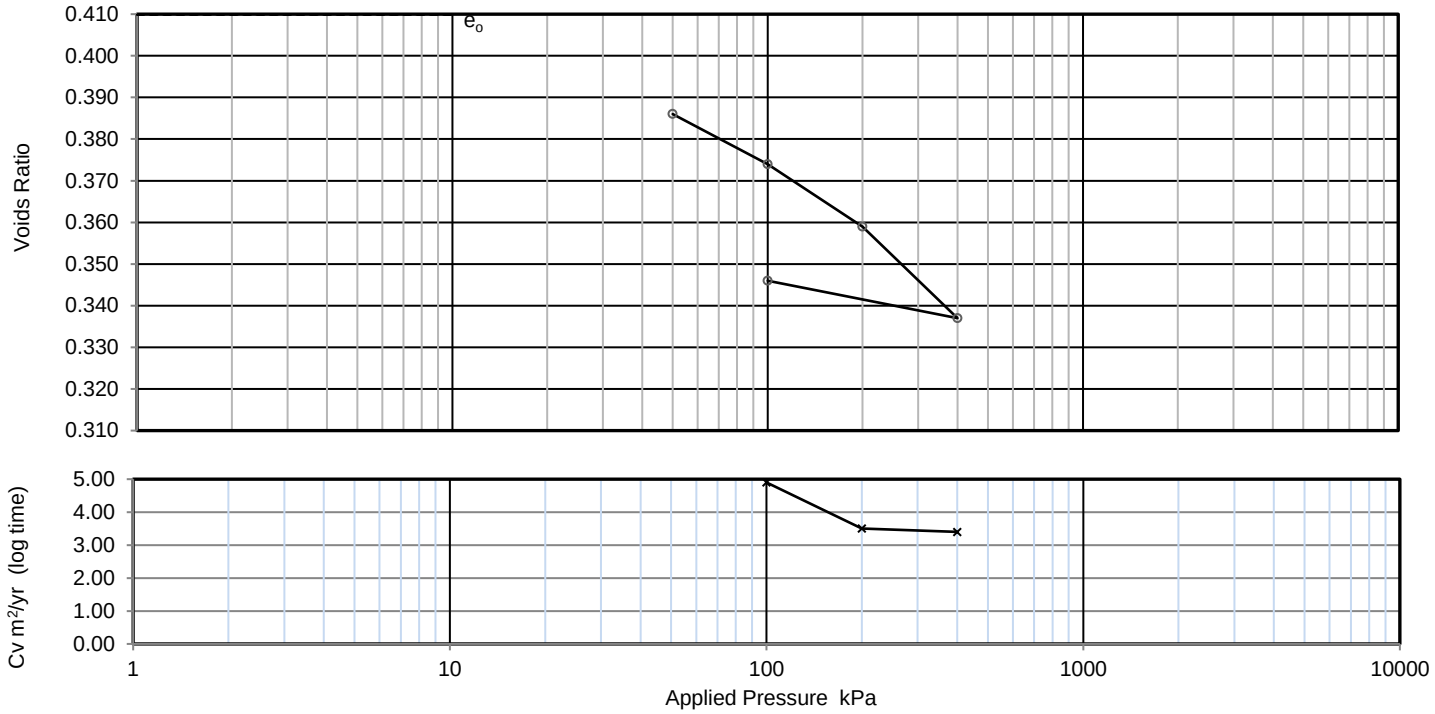
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128559	Depth Top [m]:	5.00
Hole No.:	MPBH709	Depth Base [m]:	5.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.410	-	-	-	-
50	0.386	0.34	N/A	N/A	0.00036
100	0.374	0.16	4.9	12	0.00035
200	0.359	0.11	3.5	8.4	0.00028
400	0.337	0.078	3.4	8.3	0.00051
100	0.346	0.022			

Preparation

Carried out on middle of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.20	-	mm
Height	20.00	19.10	mm
Moisture Content	17	16	%
Bulk density	2.20	2.29	Mg/m3
Dry density	1.88	1.97	Mg/m3
Voids Ratio	0.410	0.346	
Saturation	109	124	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

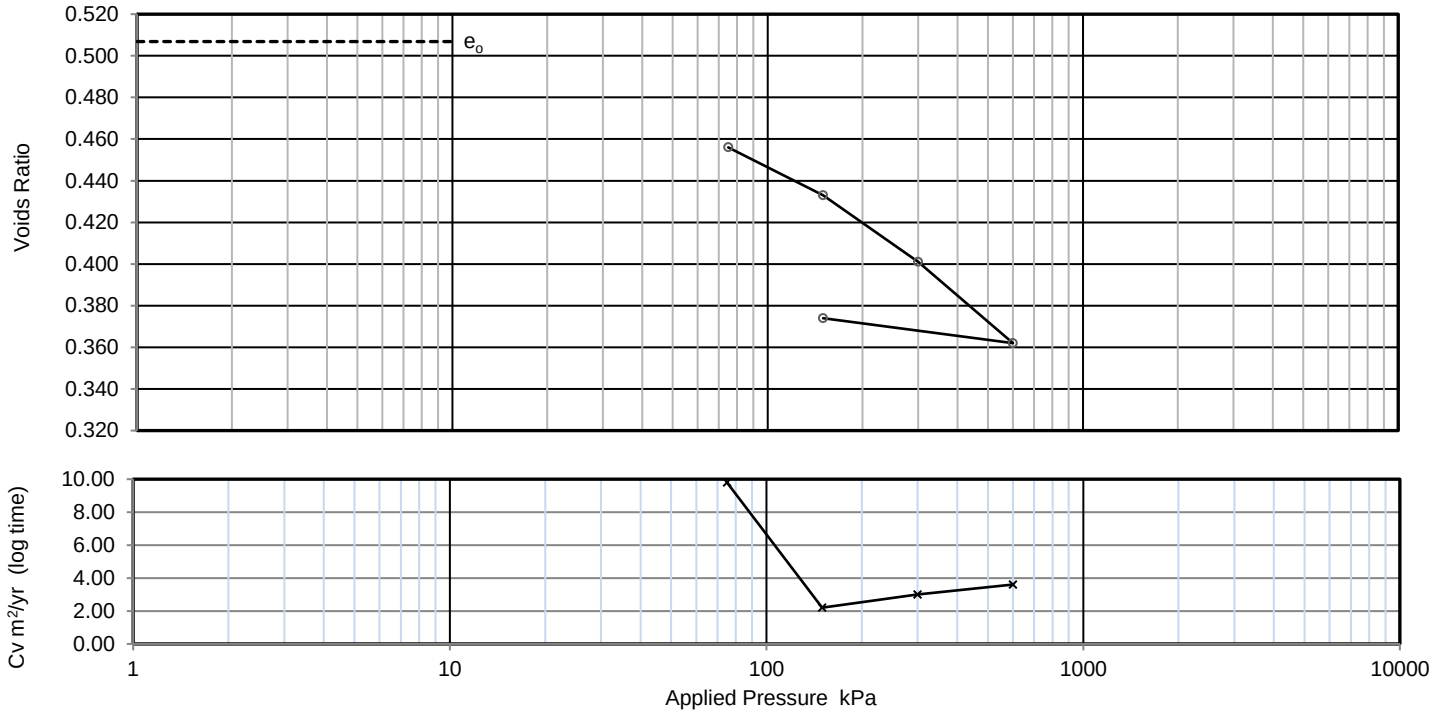
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128560	Depth Top [m]:	7.50
Hole No.:	MPBH709	Depth Base [m]:	7.95
Sample Reference:	11	Sample Type:	U
Sample Description:	Brown slightly gravelly CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.507	-	-	-	-
75	0.456	0.45	9.8	11	0.00093
150	0.433	0.21	2.2	2.6	0.00087
300	0.401	0.15	3	3.3	0.0011
600	0.362	0.094	3.6	5	0.0013
150	0.374	0.02			

Preparation: Sample squeezed out of core

Index tests			
Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.10	-	mm
Height	20.00	18.24	mm
Moisture Content	19	19	%
Bulk density	2.09	2.29	Mg/m3
Dry density	1.76	1.93	Mg/m3
Voids Ratio	0.507	0.374	
Saturation	98	134	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

i2 Analytical Ltd
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Northampton NN4 7EB

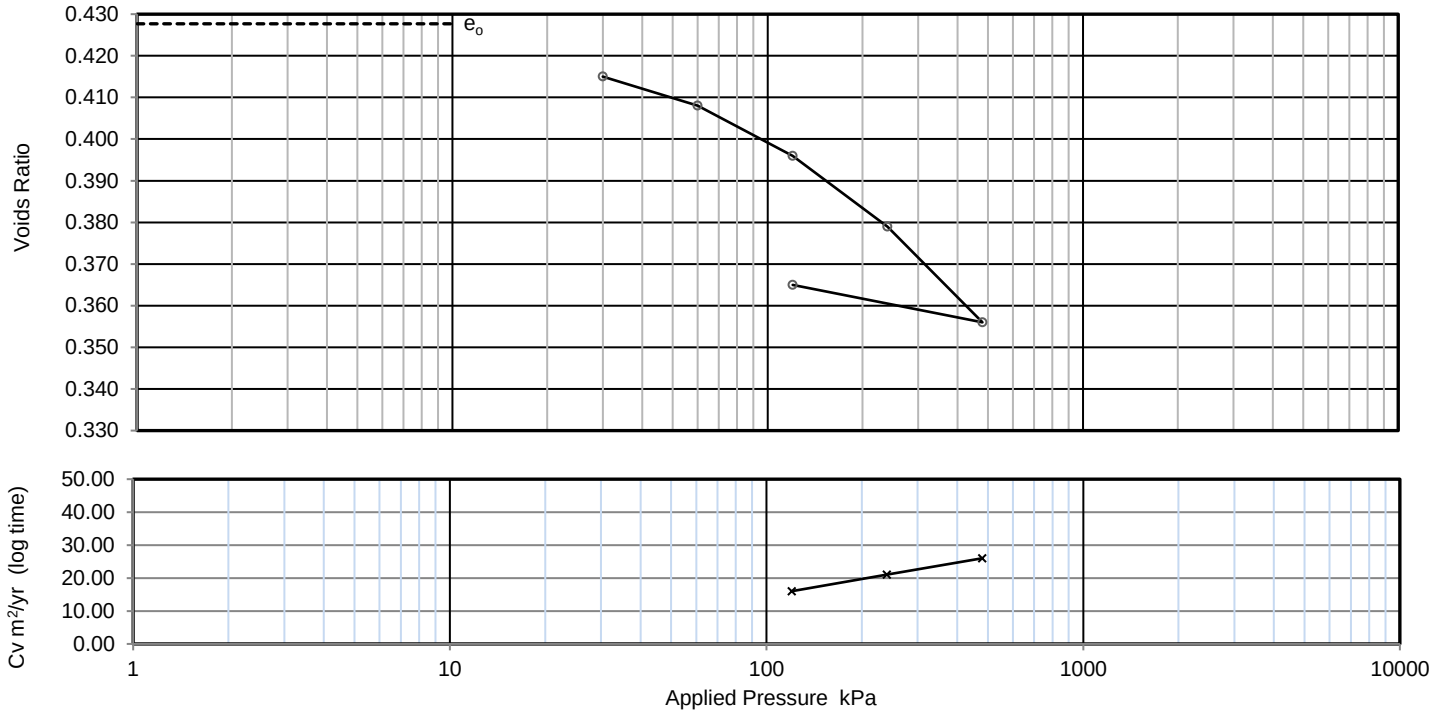
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128562	Depth Top [m]:	3.00
Hole No.:	MPBH715	Depth Base [m]:	3.45
Sample Reference:	7	Sample Type:	U
Sample Description:	Brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.428	-	-	-	-
30	0.415	0.3	N/A	N/A	N/A
60	0.408	0.16	N/A	N/A	N/A
120	0.396	0.15	16	17	0.00054
240	0.379	0.1	21	26	0.00064
480	0.356	0.071	26	35	0.00093
120	0.365	0.02			

Preparation

Carried out on middle of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.00	-	mm
Height	20.00	19.12	mm
Moisture Content	16	17	%
Bulk density	2.14	2.27	Mg/m3
Dry density	1.86	1.94	Mg/m3
Voids Ratio	0.428	0.365	
Saturation	96	123	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Stage 1 - swelling
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

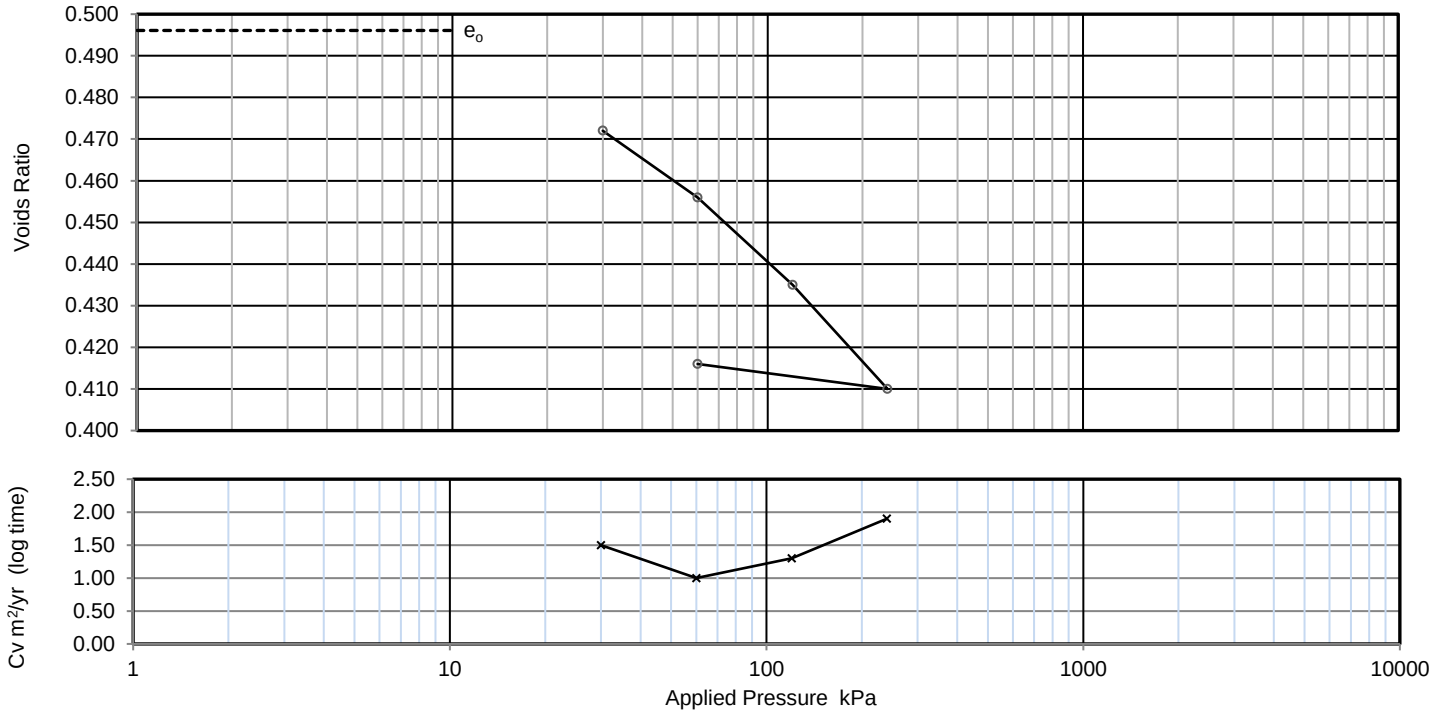
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128565	Depth Top [m]:	3.00
Hole No.:	MPBH713	Depth Base [m]:	3.45
Sample Reference:	8	Sample Type:	U
Sample Description:	Brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.496	-	-	-	-
30	0.472	0.54	1.5	3.8	0.00095
60	0.456	0.35	1	1.2	0.00043
120	0.435	0.24	1.3	1.7	N/A
240	0.410	0.15	1.9	2	0.00086
60	0.416	0.024			

Preparation: Carried out on top of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.05	-	mm
Height	20.04	18.97	mm
Moisture Content	20	17	%
Bulk density	2.12	2.20	Mg/m3
Dry density	1.77	1.87	Mg/m3
Voids Ratio	0.496	0.416	
Saturation	106	111	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

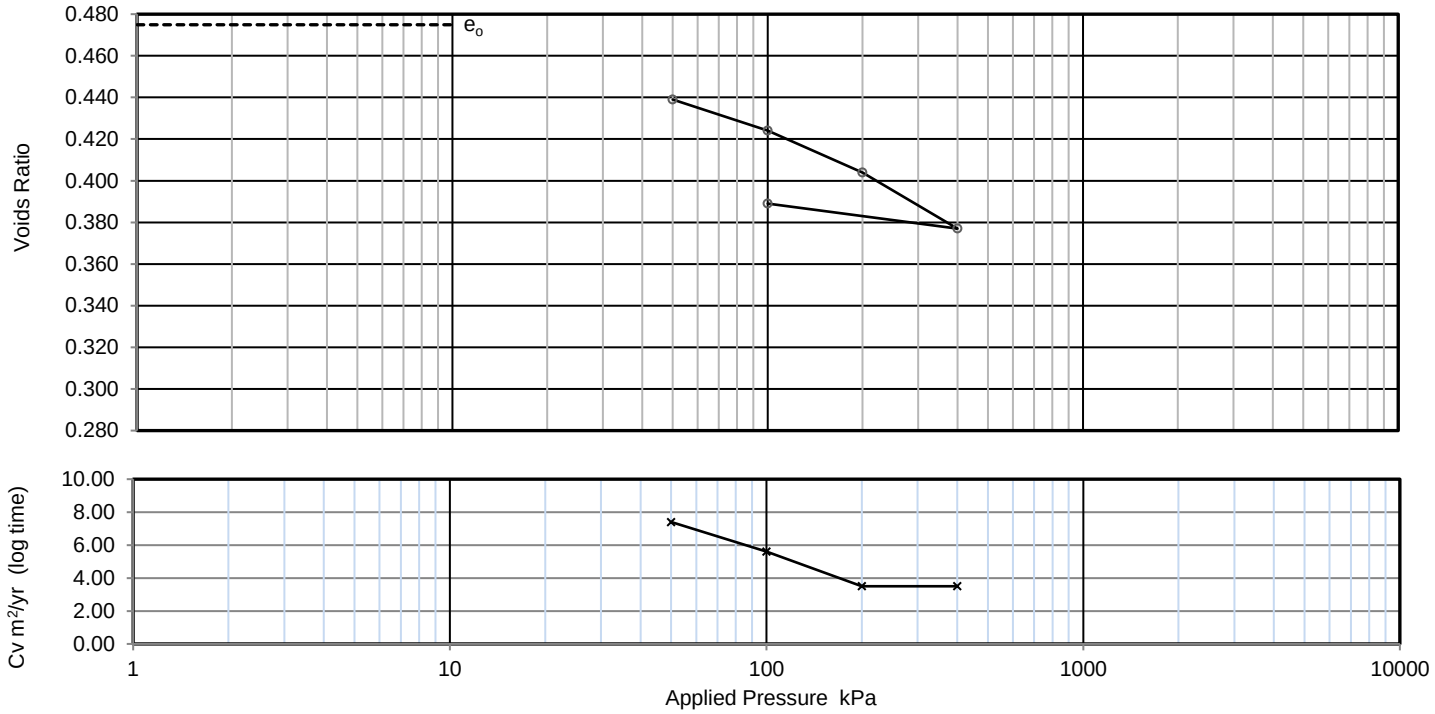
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128566	Depth Top [m]:	5.00
Hole No.:	MPBH713	Depth Base [m]:	5.45
Sample Reference:	12	Sample Type:	U
Sample Description:	Brown slightly gravelly CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.475	-	-	-	-
50	0.439	0.48	7.4	15	0.00062
100	0.424	0.21	5.6	22	0.00038
200	0.404	0.14	3.5	11	0.00063
400	0.377	0.098	3.5	9.9	0.0013
100	0.389	0.029			

Preparation: Carried out on top of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.00	-	mm
Height	20.20	19.02	mm
Moisture Content	19	19	%
Bulk density	2.13	2.28	Mg/m3
Dry density	1.80	1.91	Mg/m3
Voids Ratio	0.475	0.389	
Saturation	104	133	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

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

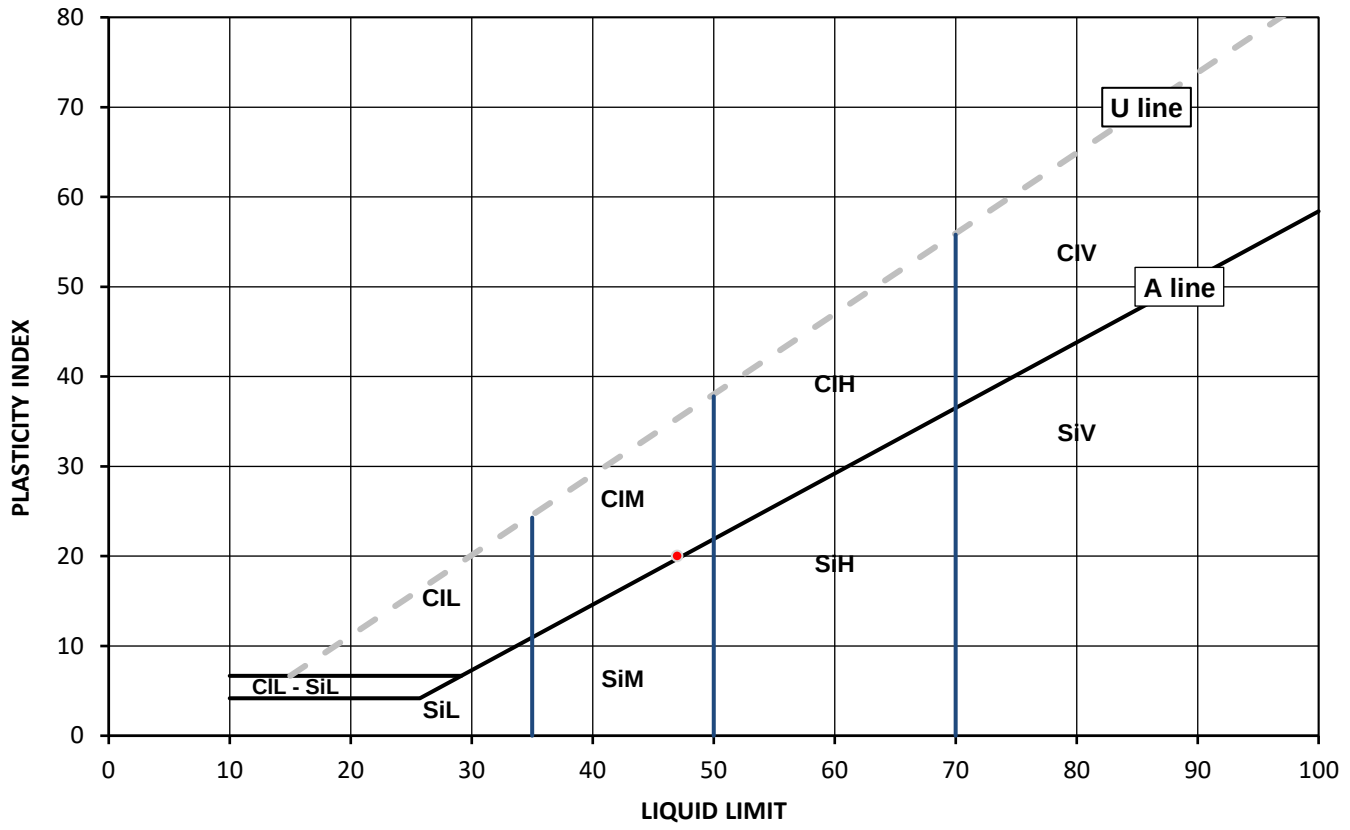
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128570	Depth Top [m]:	1.50
Hole No.:	MPBH702	Depth Base [m]:	1.95
Sample Reference:	2	Sample Type:	D
Sample Description:	Brownish grey 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
23	47	27	20	92



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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

4041

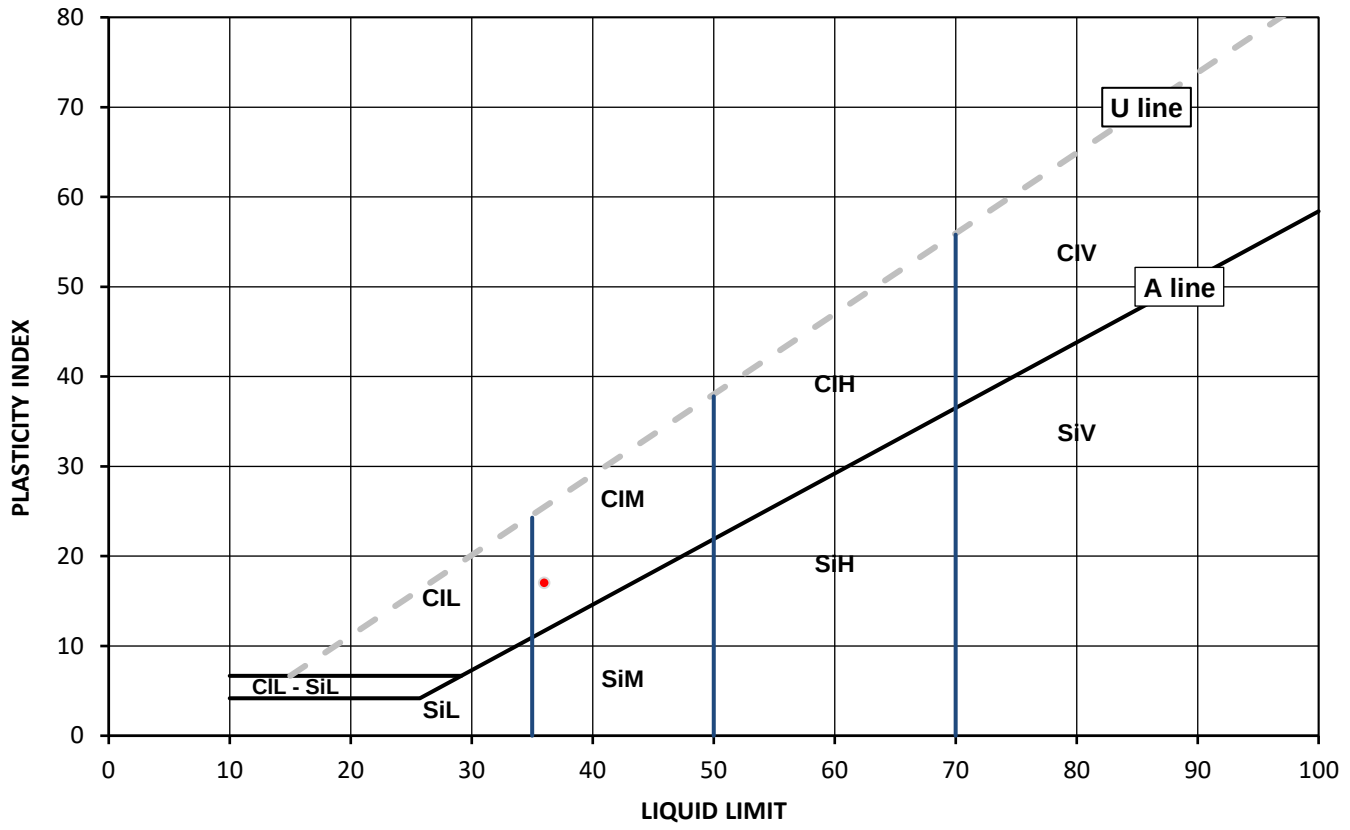
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128557	Depth Top [m]:	3.00
Hole No.:	MPBH704	Depth Base [m]:	3.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Dark brown slightly gravelly 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
16	36	19	17	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: Preliminary report 2

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Katarzyna Koziel
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Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

i2 Analytical Ltd
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Northampton NN4 7EB

4041

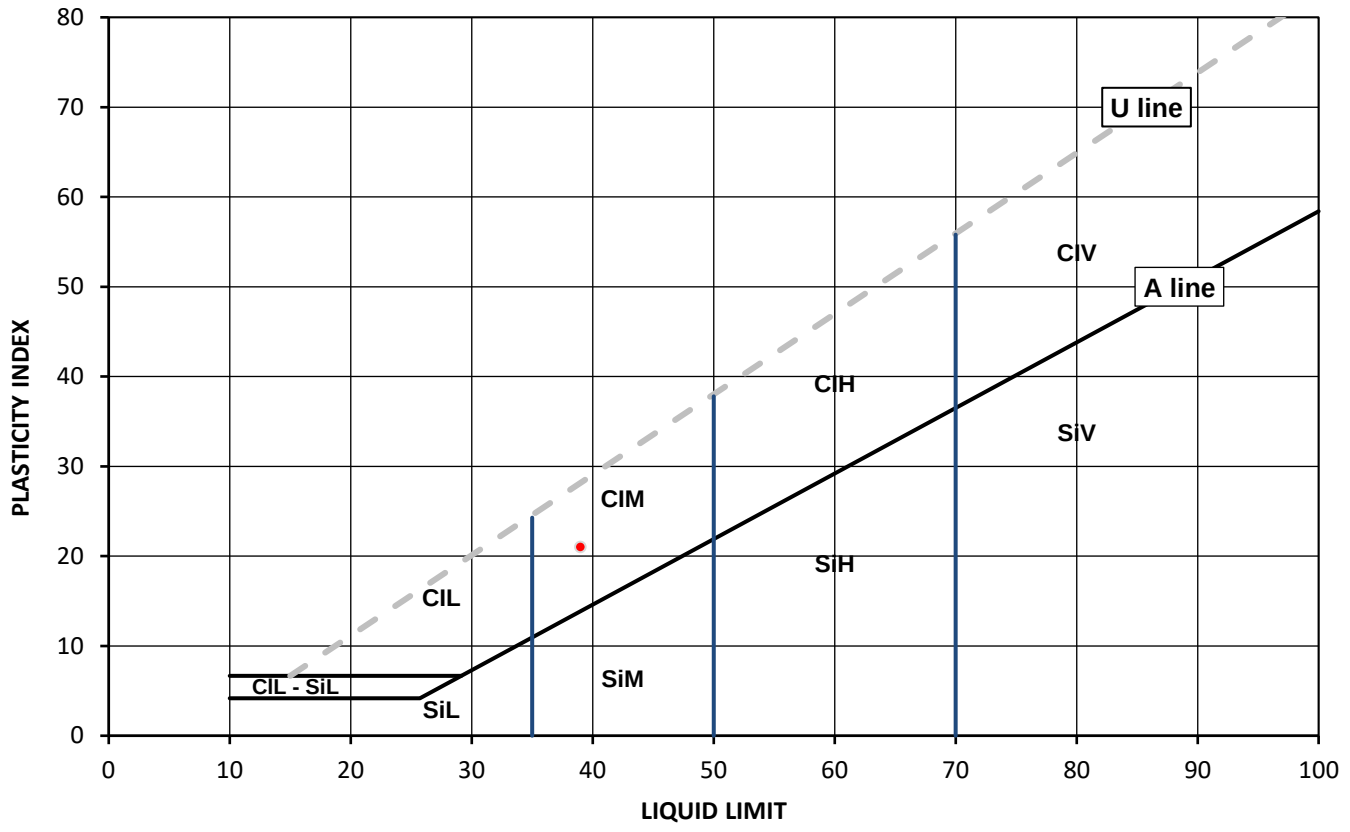
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128559	Depth Top [m]:	5.00
Hole No.:	MPBH709	Depth Base [m]:	5.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Brown slightly gravelly 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	39	18	21	90



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: Preliminary report 2

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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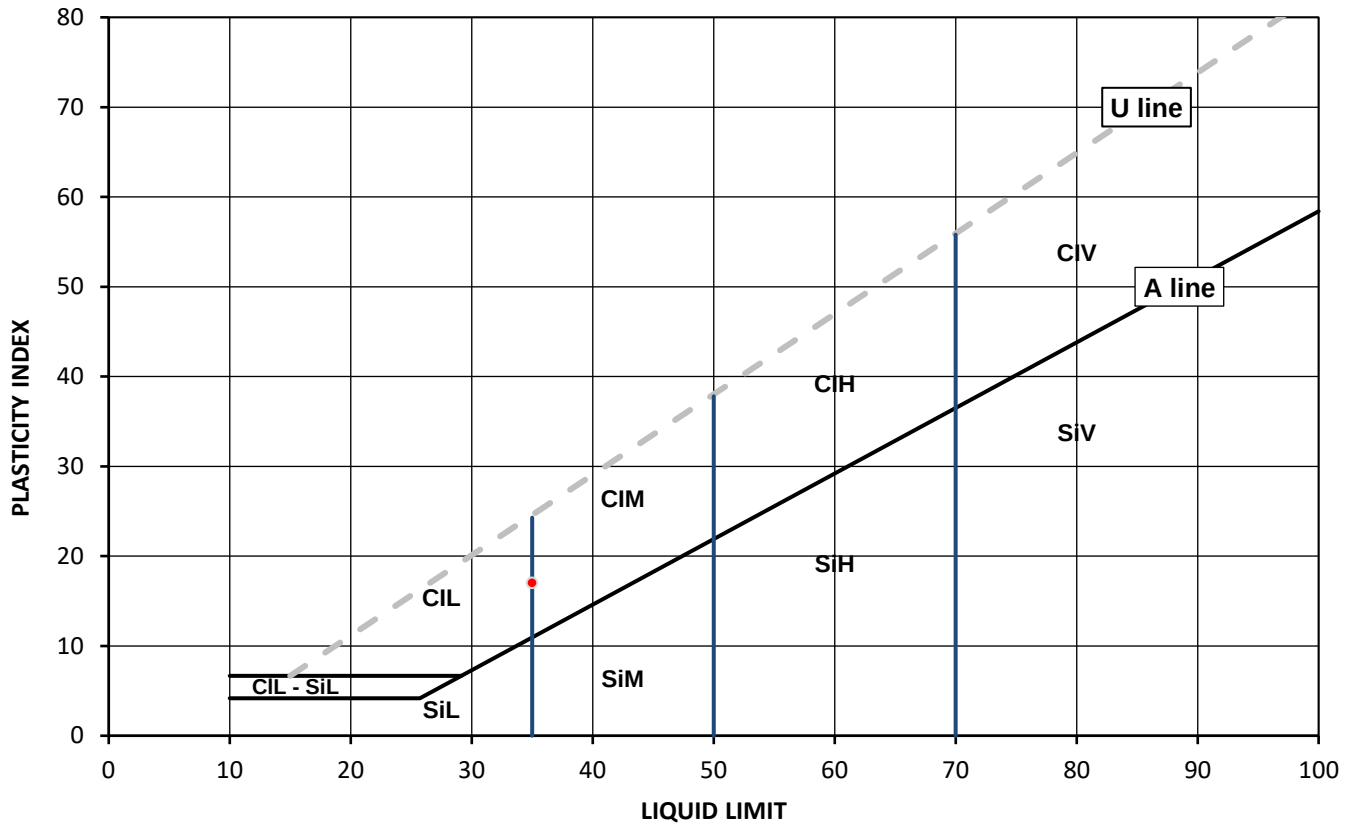
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128562	Depth Top [m]:	3.00
Hole No.:	MPBH715	Depth Base [m]:	3.45
Sample Reference:	7	Sample Type:	U
Sample Description:	Brown slightly gravelly 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
15	35	18	17	95



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: Preliminary report 2

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Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

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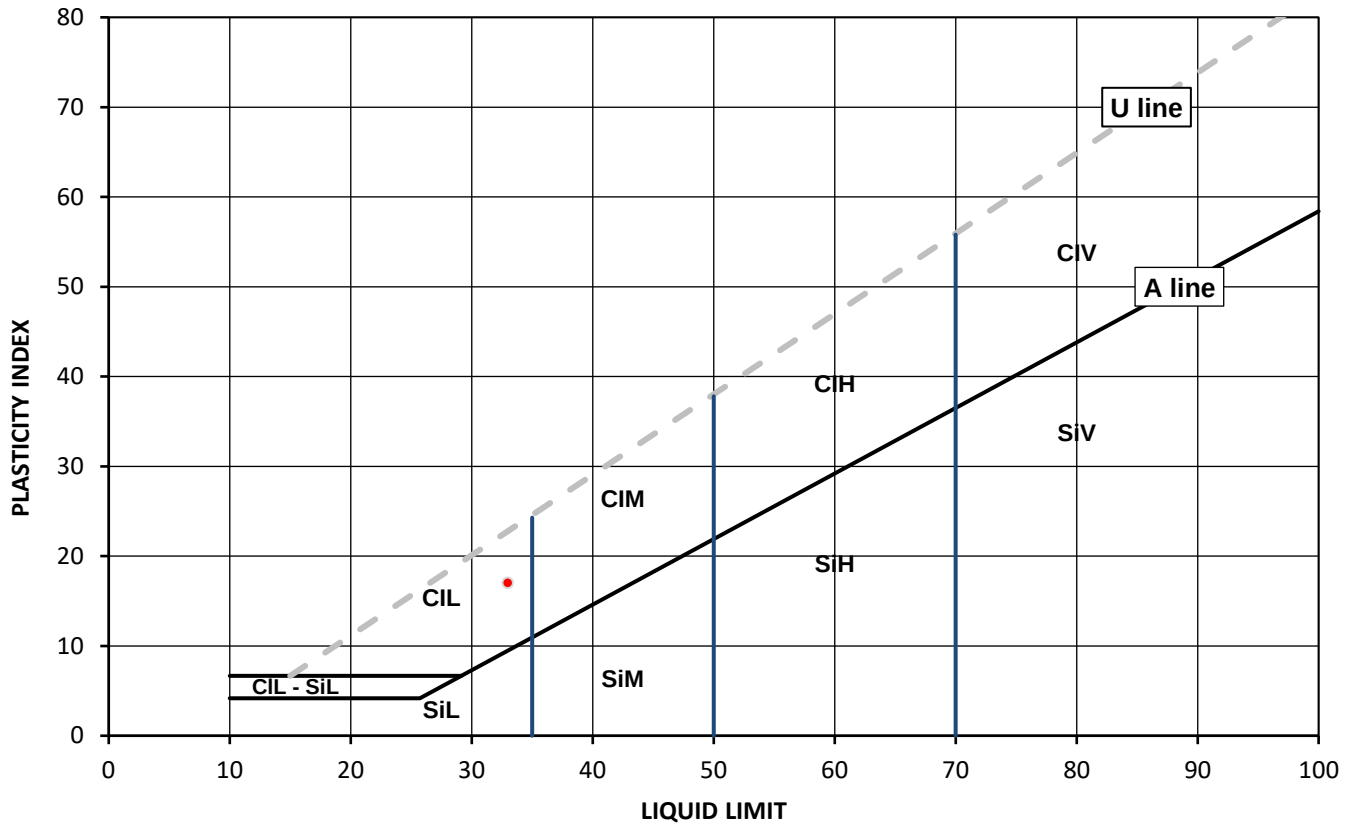
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128564	Depth Top [m]:	7.50
Hole No.:	MPBH715	Depth Base [m]:	7.95
Sample Reference:	16	Sample Type:	U
Sample Description:	Brown slightly gravelly very 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
16	33	16	17	90



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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

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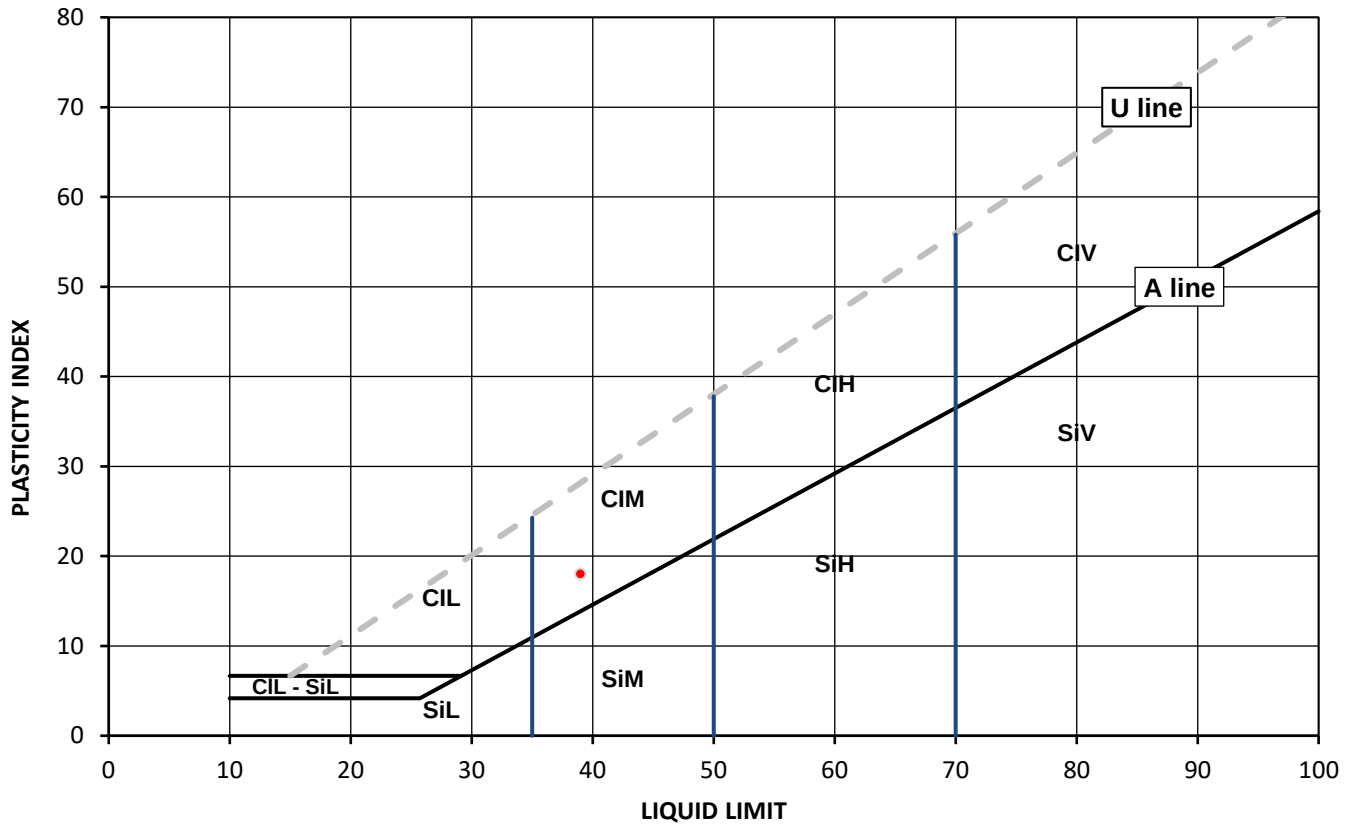
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128565	Depth Top [m]:	3.00
Hole No.:	MPBH713	Depth Base [m]:	3.45
Sample Reference:	8	Sample Type:	U
Sample Description:	Brown slightly gravelly 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
19	39	21	18	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: Preliminary report 2

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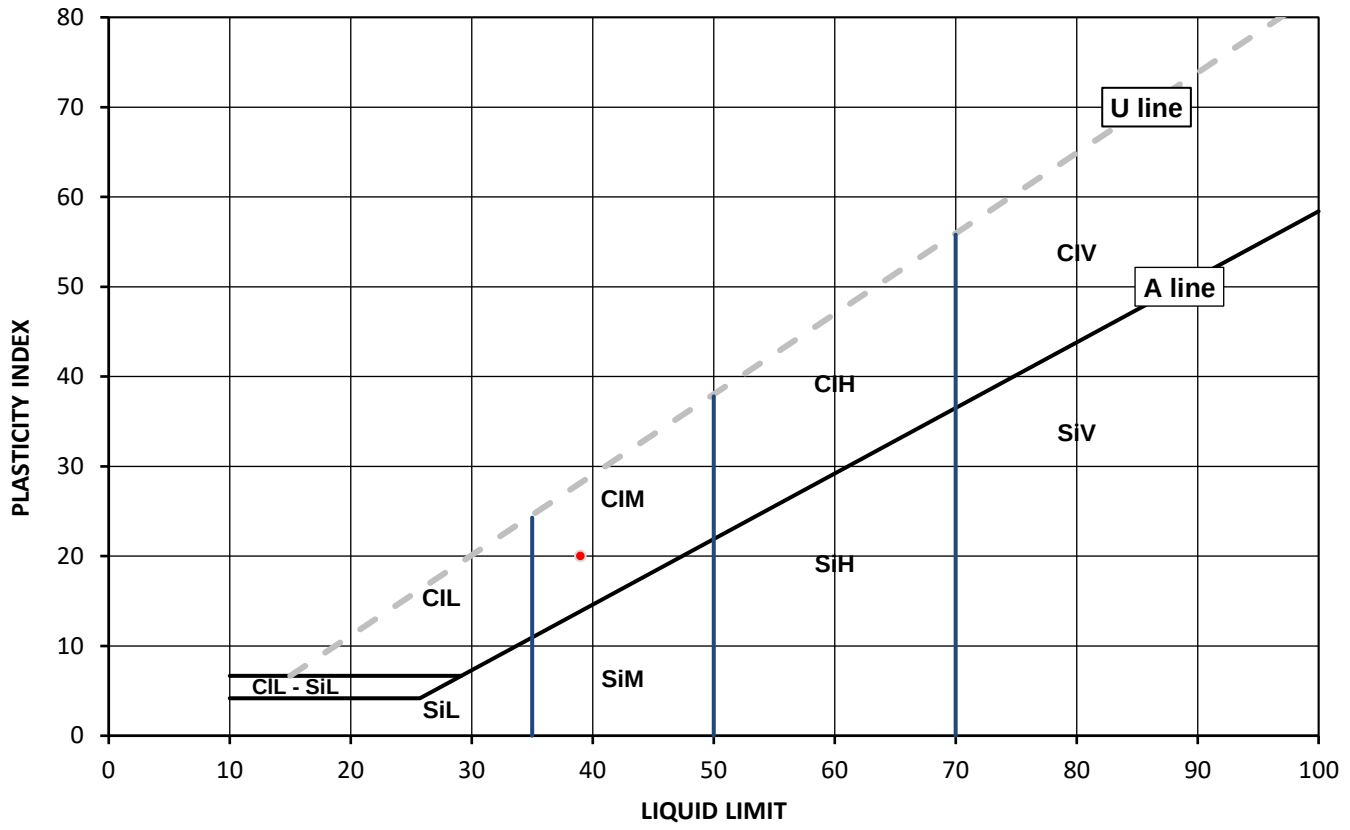
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128568	Depth Top [m]:	3.50
Hole No.:	MPBH703	Depth Base [m]:	3.95
Sample Reference:	16	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
15	39	19	20	93



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: Preliminary report 2

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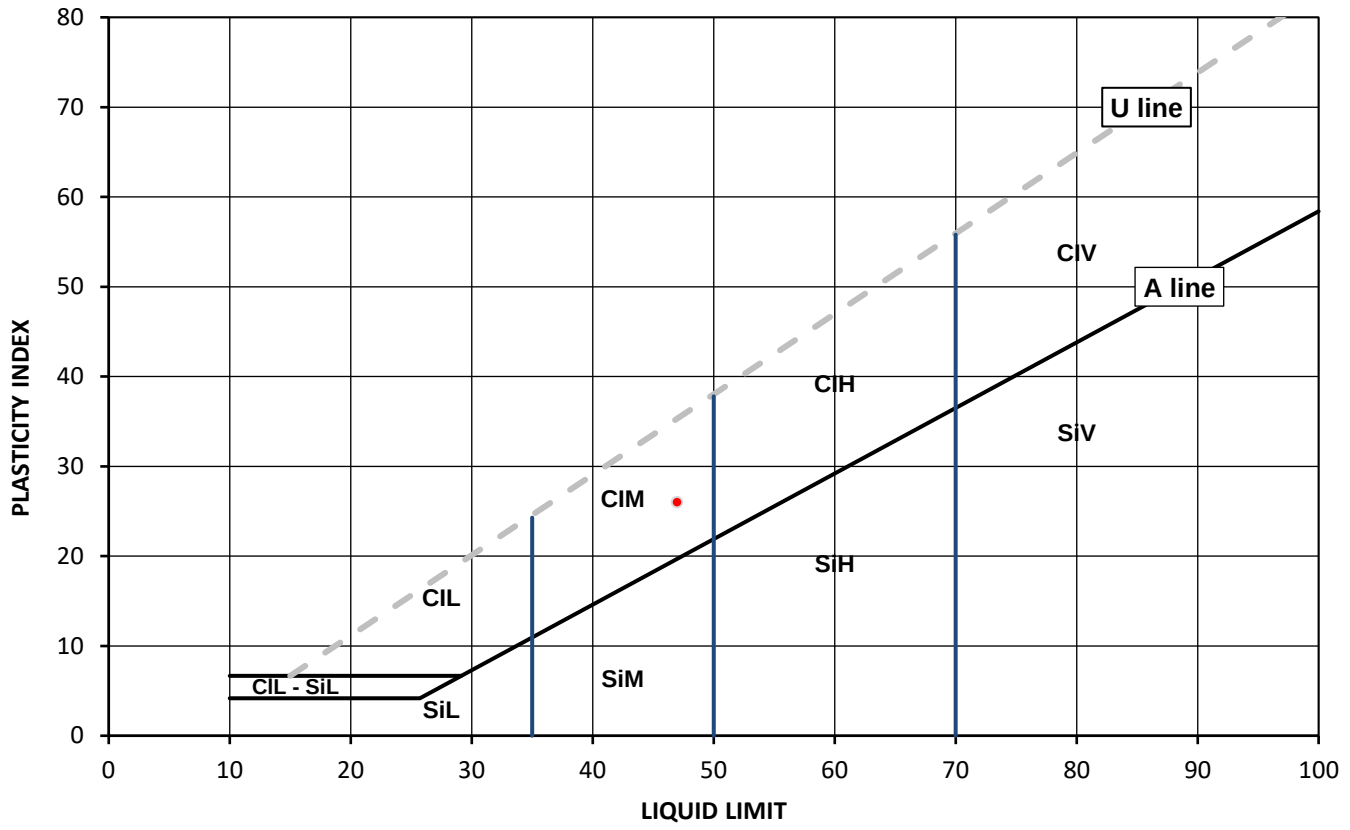
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128569	Depth Top [m]:	12.00
Hole No.:	MPBH703	Depth Base [m]:	12.45
Sample Reference:	13	Sample Type:	D
Sample Description:	Brown slightly sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
22	47	21	26	100



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: Preliminary report 2

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DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

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Environmental Science

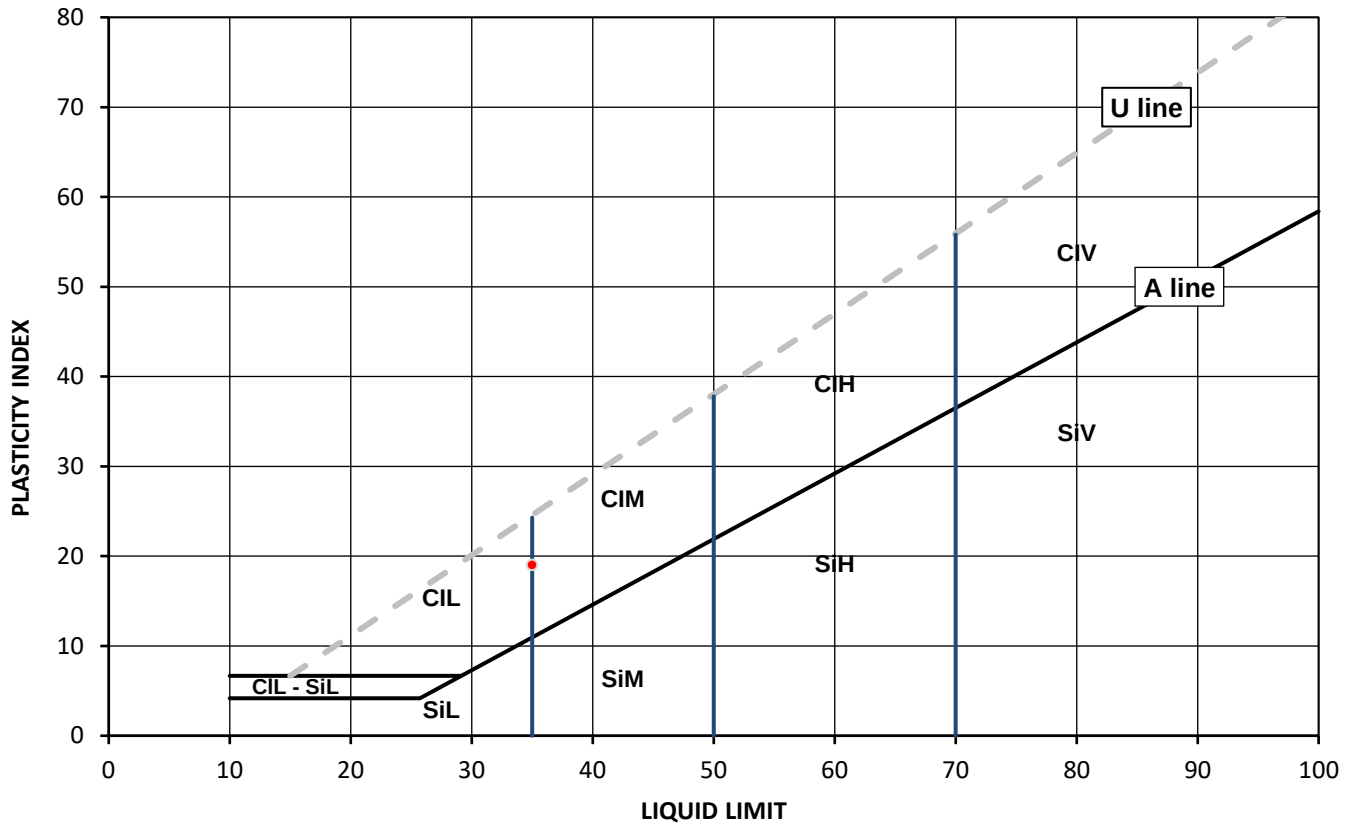
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128571	Depth Top [m]:	2.60
Hole No.:	MPBH702	Depth Base [m]:	3.00
Sample Reference:	11	Sample Type:	B
Sample Description:	Dark brown slightly gravelly sandy CLAY		
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
16	35	16	19	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: Preliminary report 2

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

UKAS TESTING 4041

Environmental Science

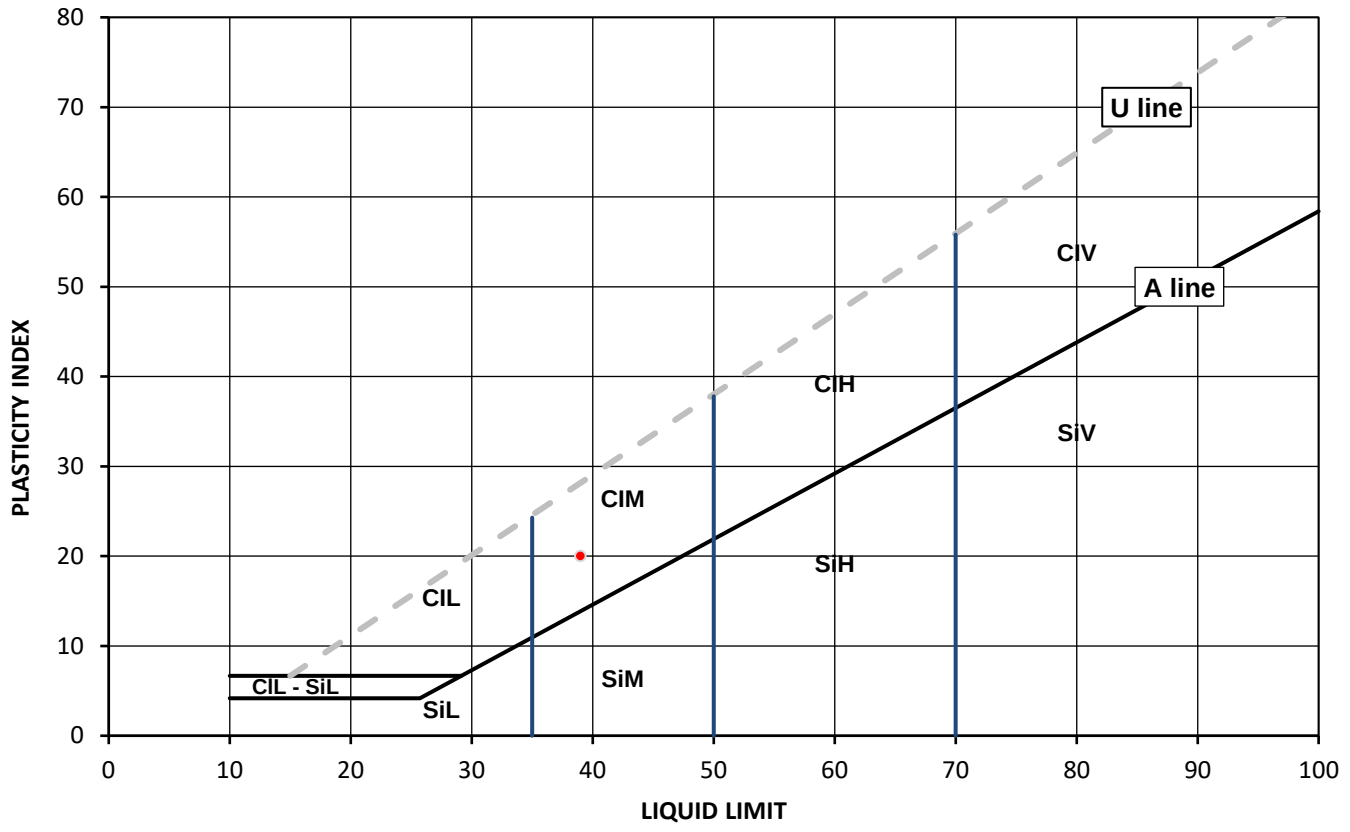
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128572	Depth Top [m]:	2.20
Hole No.:	MPBH705	Depth Base [m]:	2.20
Sample Reference:	3	Sample Type:	D
Sample Description:	Greyish brown slightly gravelly sandy CLAY		
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
11	39	19	20	98



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: Preliminary report 2

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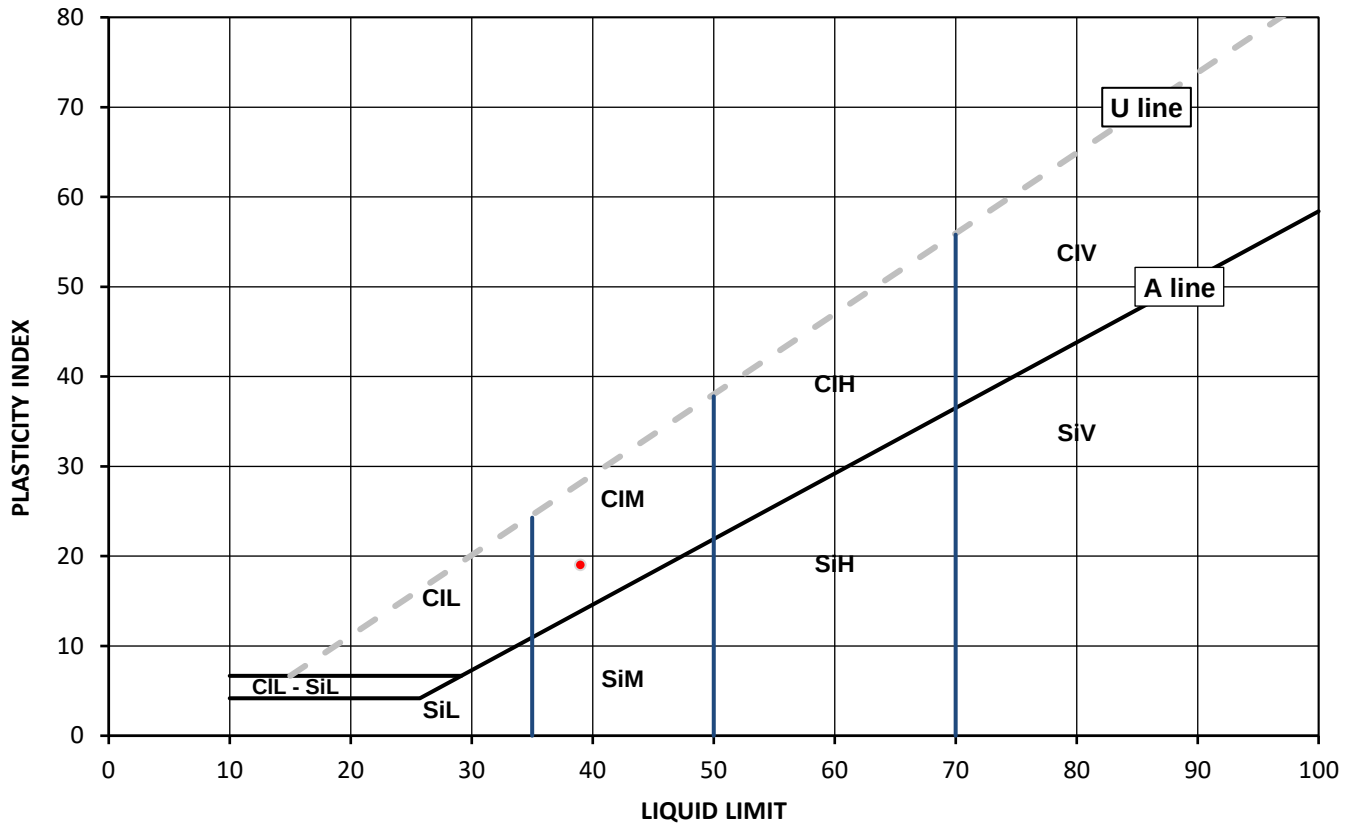
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128573	Depth Top [m]:	1.20
Hole No.:	MPBH704	Depth Base [m]:	1.65
Sample Reference:	2	Sample Type:	D
Sample Description:	Brown sandy CLAY		
Sample Preparation:	Tested in natural condition		

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
19	39	20	19	100



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: Preliminary report 2

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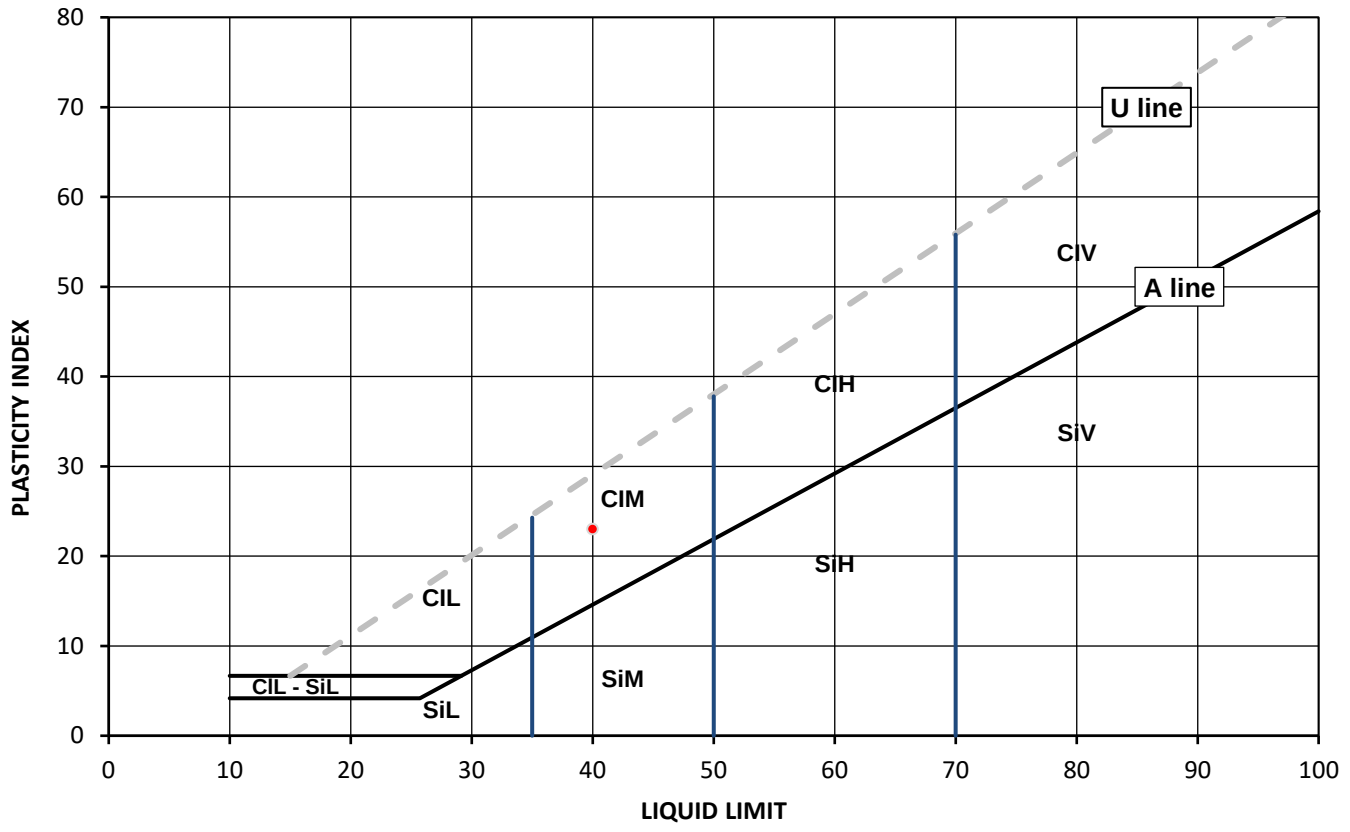
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		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128574	Depth Top [m]:	2.00
Hole No.:	MPBH704	Depth Base [m]:	2.45
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
19	40	17	23	96



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

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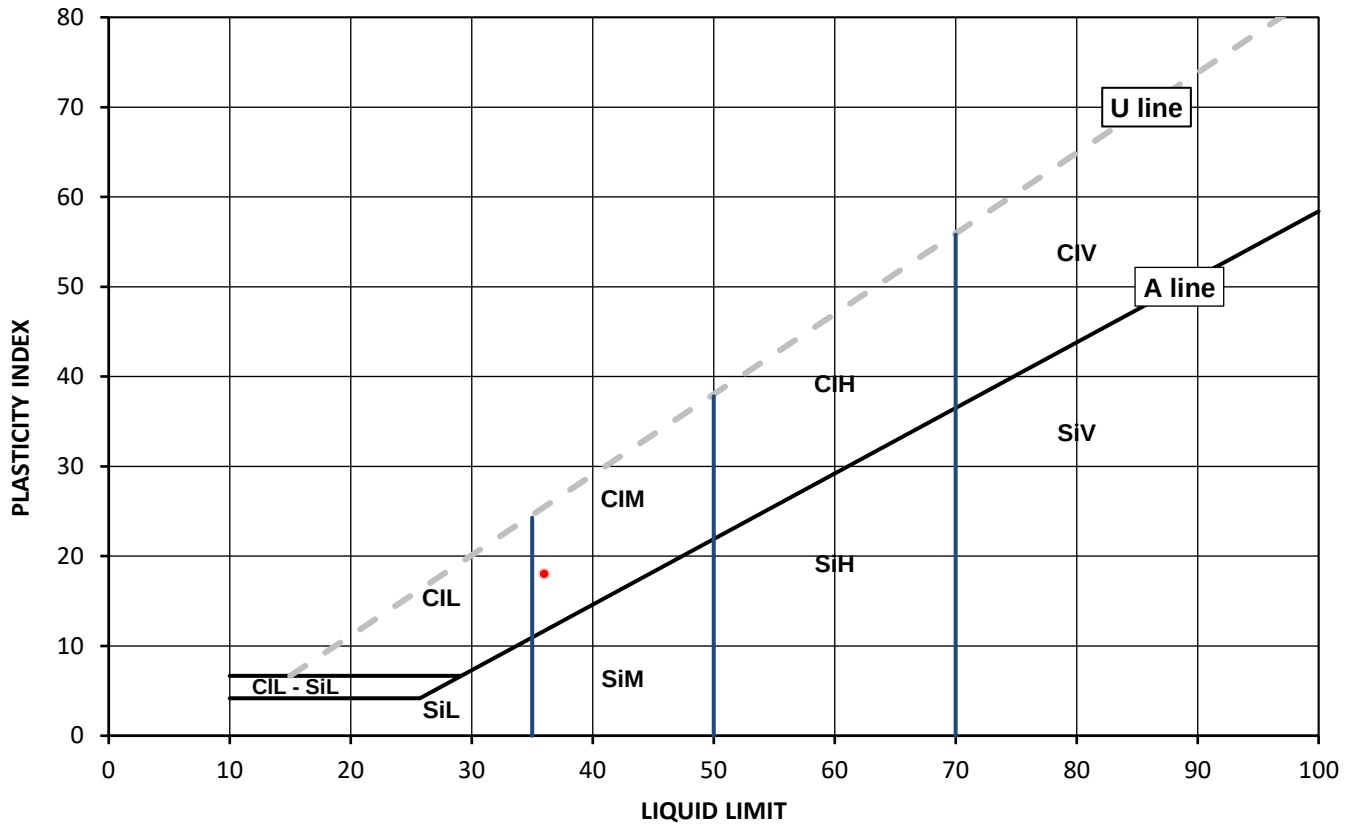
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
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		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128575	Depth Top [m]:	5.00
Hole No.:	MPBH711	Depth Base [m]:	5.45
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
15	36	18	18	95



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: Preliminary report 2

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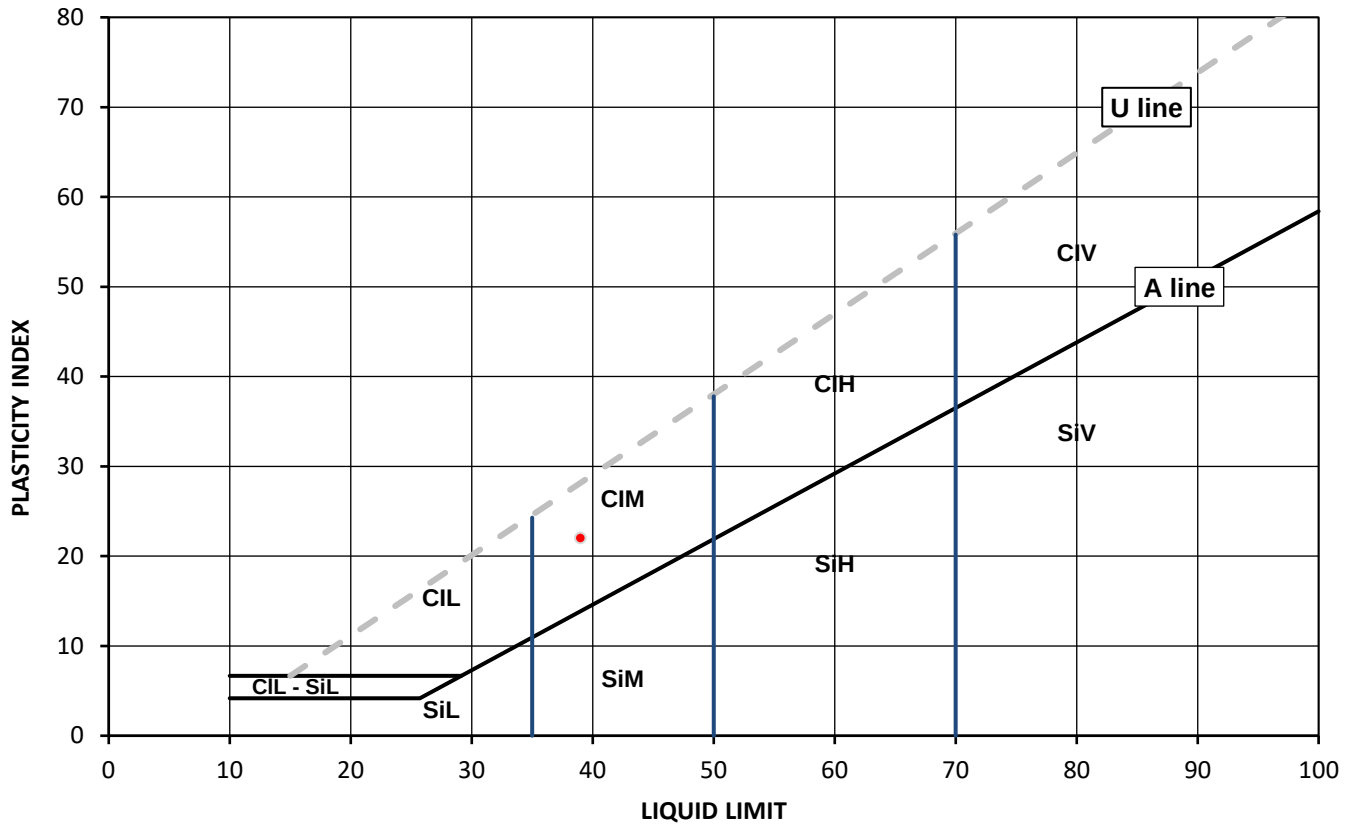
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		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128576	Depth Top [m]:	8.00
Hole No.:	MPBH711	Depth Base [m]:	8.45
Sample Reference:	10	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
17	39	17	22	97



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: Preliminary report 2

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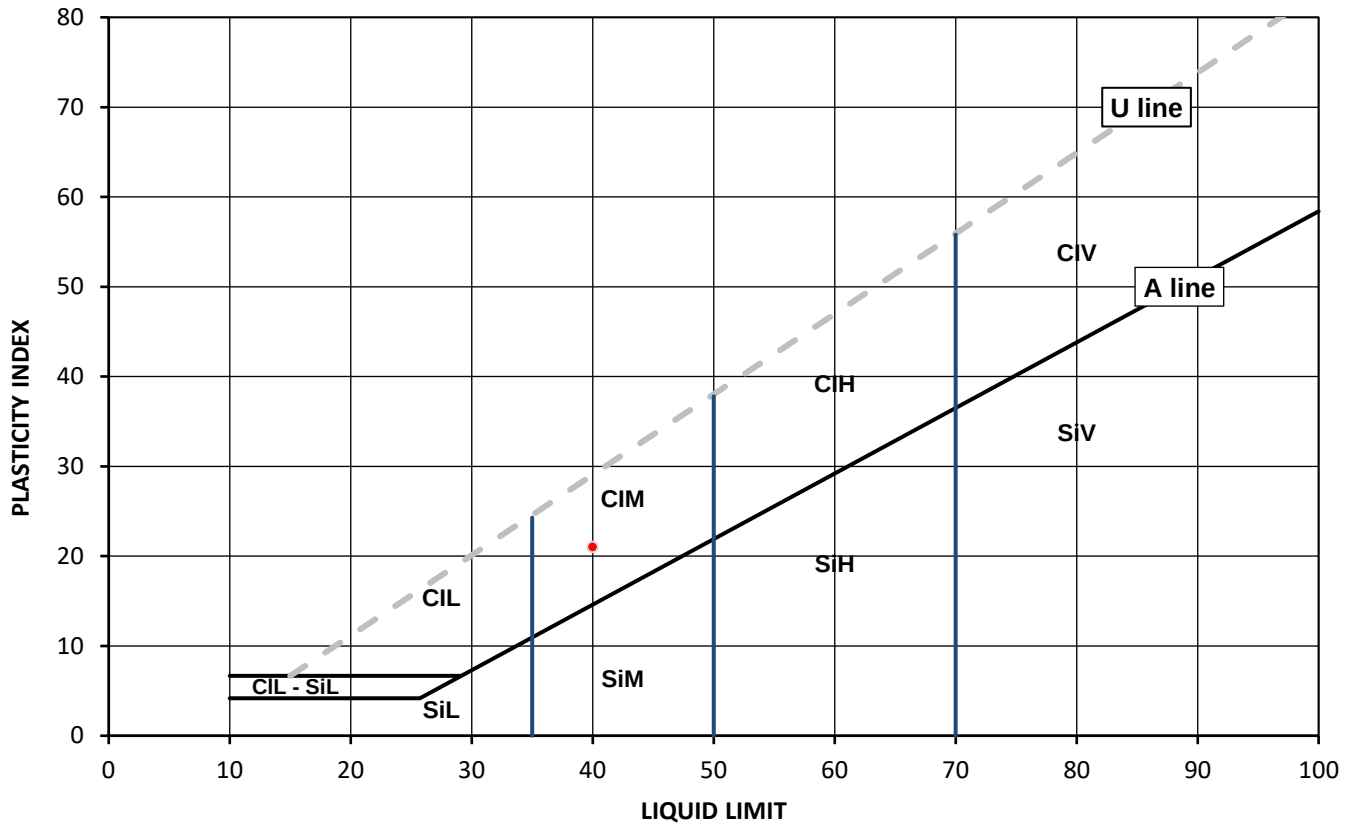
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128577	Depth Top [m]:	7.00
Hole No.:	MPBH713	Depth Base [m]:	7.45
Sample Reference:	18	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
19	40	19	21	94



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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

4041

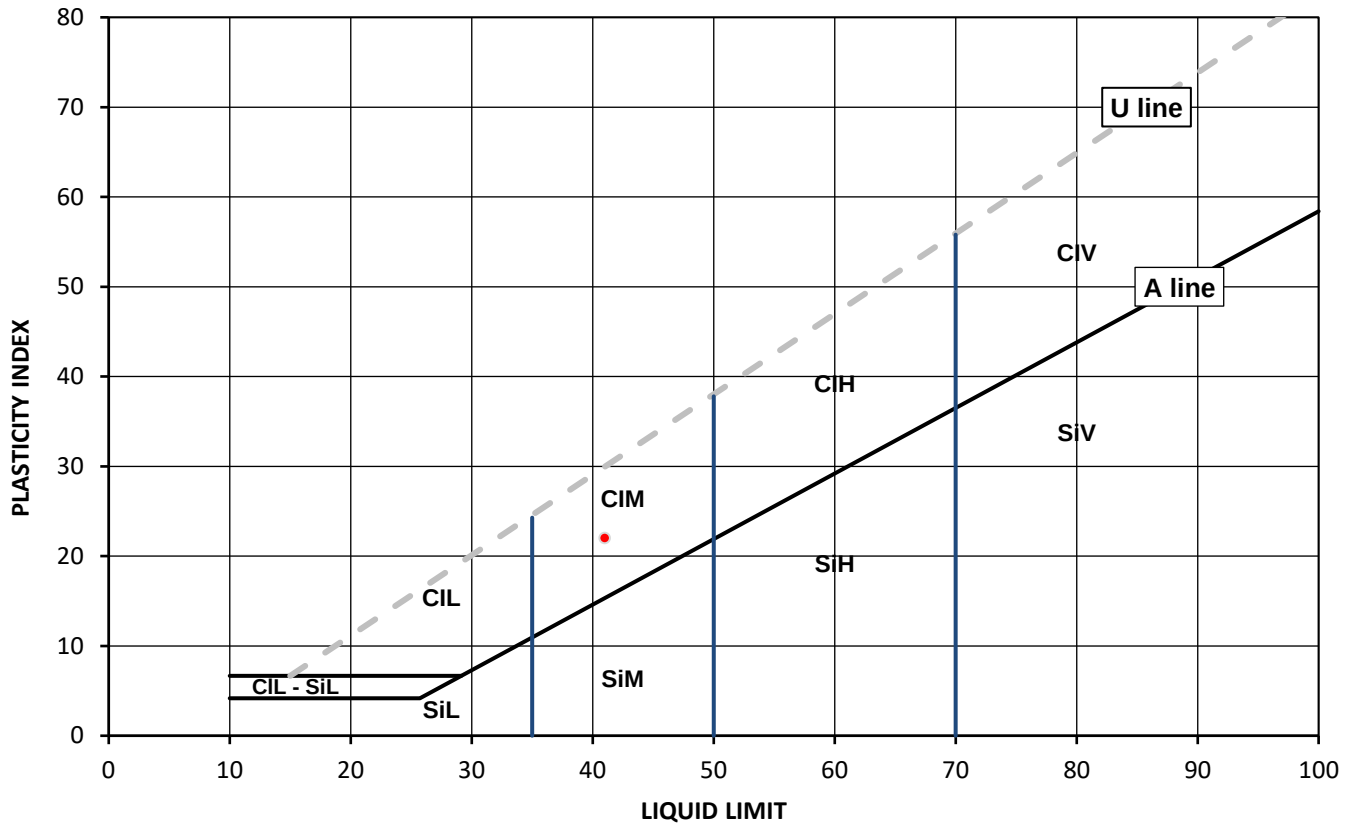
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128578	Depth Top [m]:	6.00
Hole No.:	MPBH707	Depth Base [m]:	6.45
Sample Reference:	8	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
19	41	19	22	97



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: Preliminary report 2

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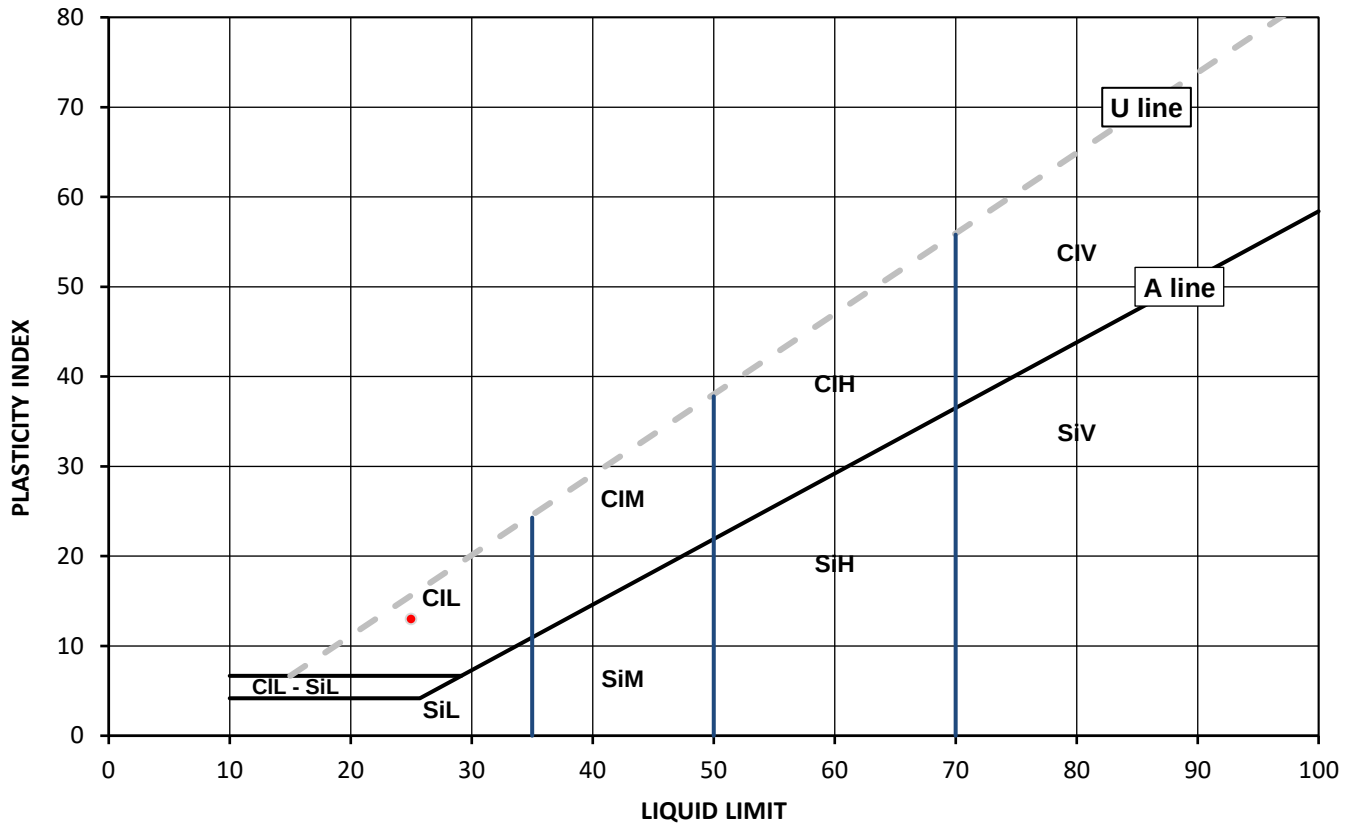
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128580	Depth Top [m]:	9.00
Hole No.:	MPBH715	Depth Base [m]:	9.45
Sample Reference:	18	Sample Type:	D
Sample Description:	Brown slightly gravelly clayey SAND		
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
9.2	25	12	13	89



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

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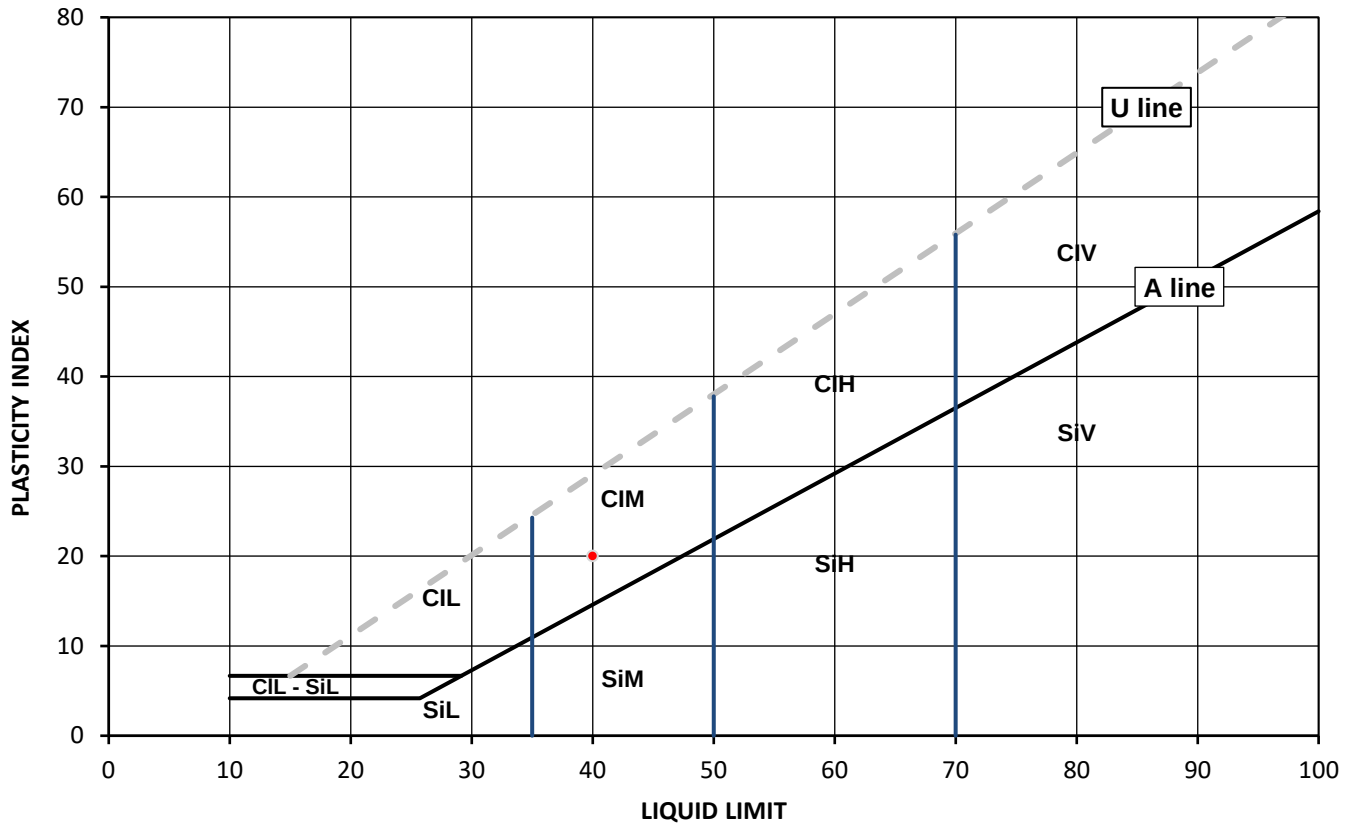
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		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128581	Depth Top [m]:	1.20
Hole No.:	WS701	Depth Base [m]:	1.65
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
17	40	20	20	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)

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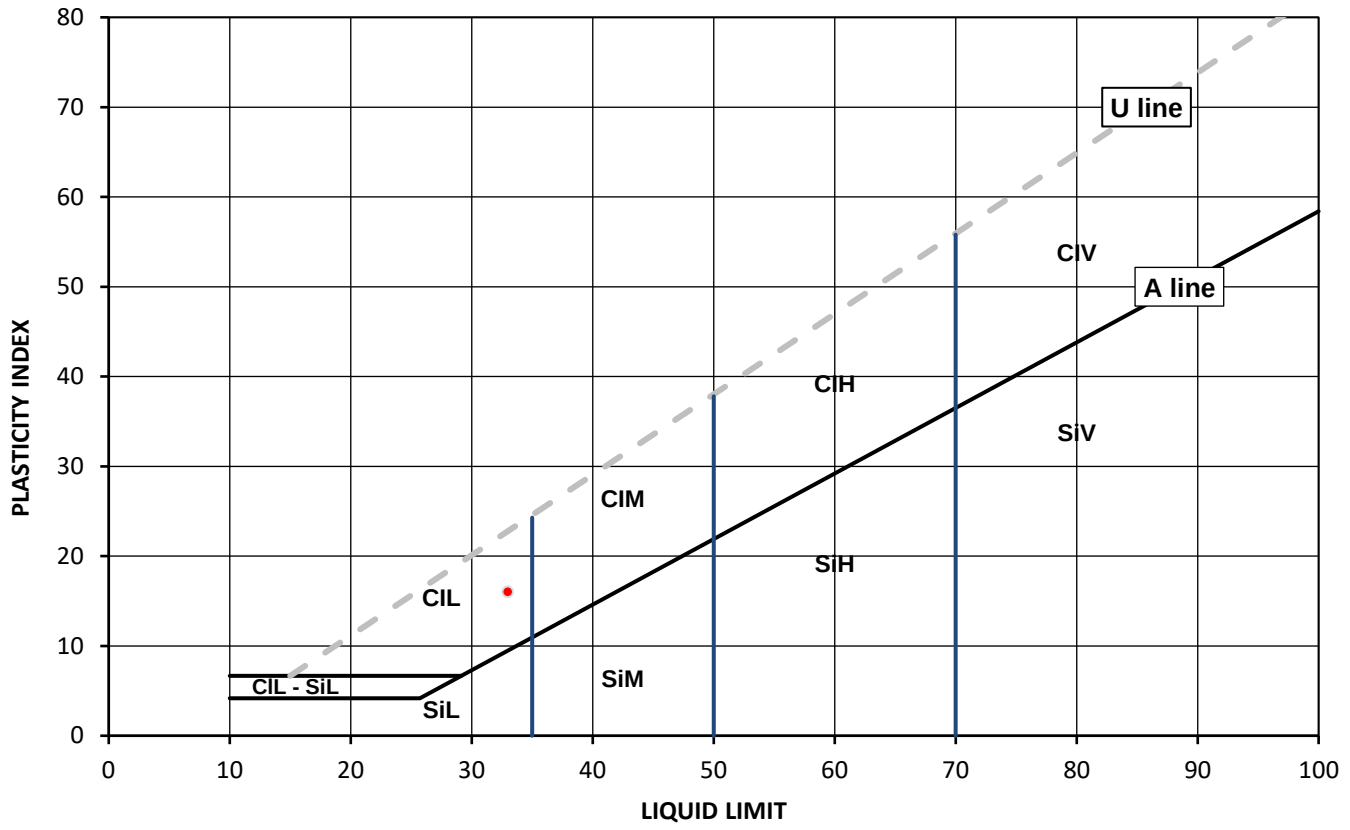
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128582	Depth Top [m]:	3.00
Hole No.:	WS702	Depth Base [m]:	3.45
Sample Reference:	9	Sample Type:	D
Sample Description:	Brown slightly gravelly very 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
15	33	17	16	94



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

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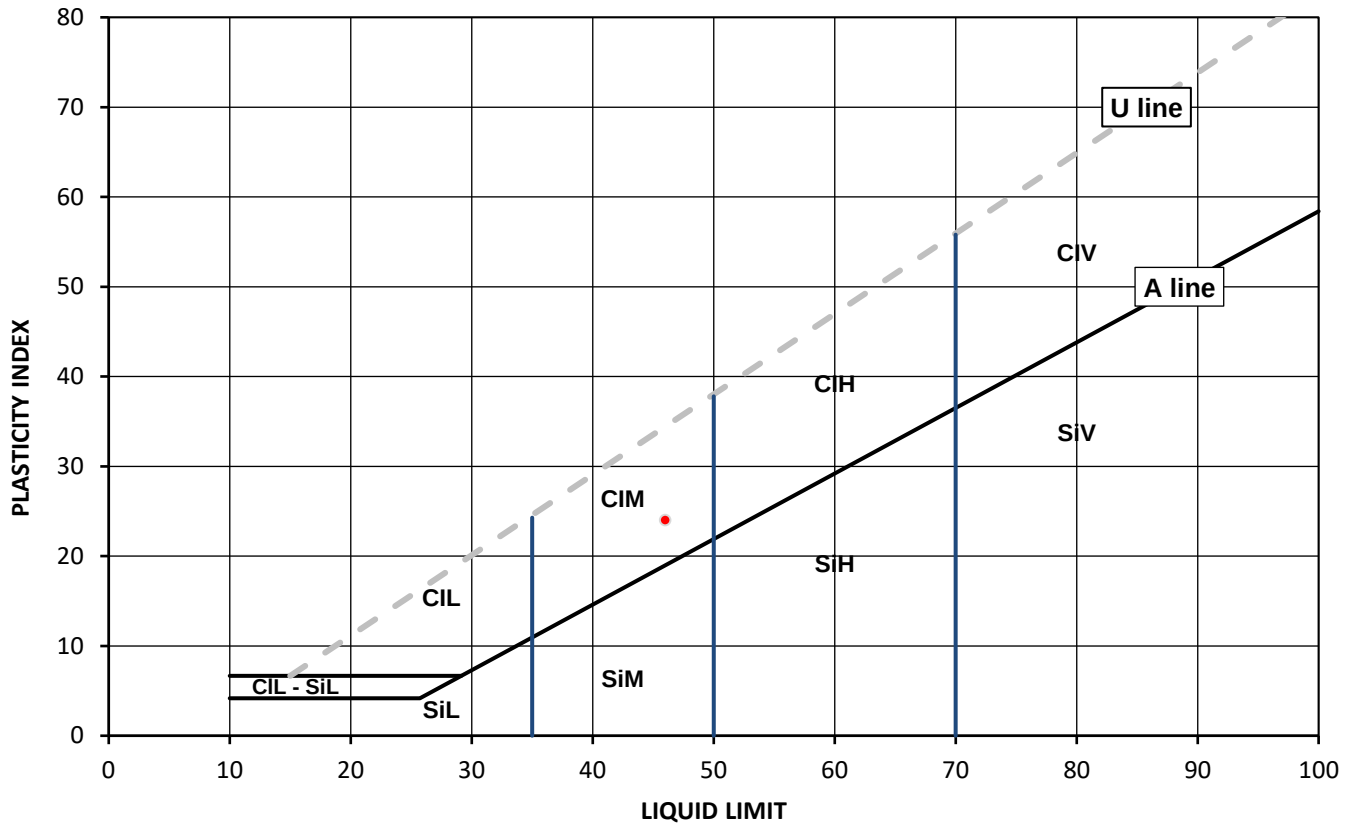
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128583	Depth Top [m]:	1.75
Hole No.:	WS703	Depth Base [m]:	1.75
Sample Reference:	3	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
27	46	22	24	84



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

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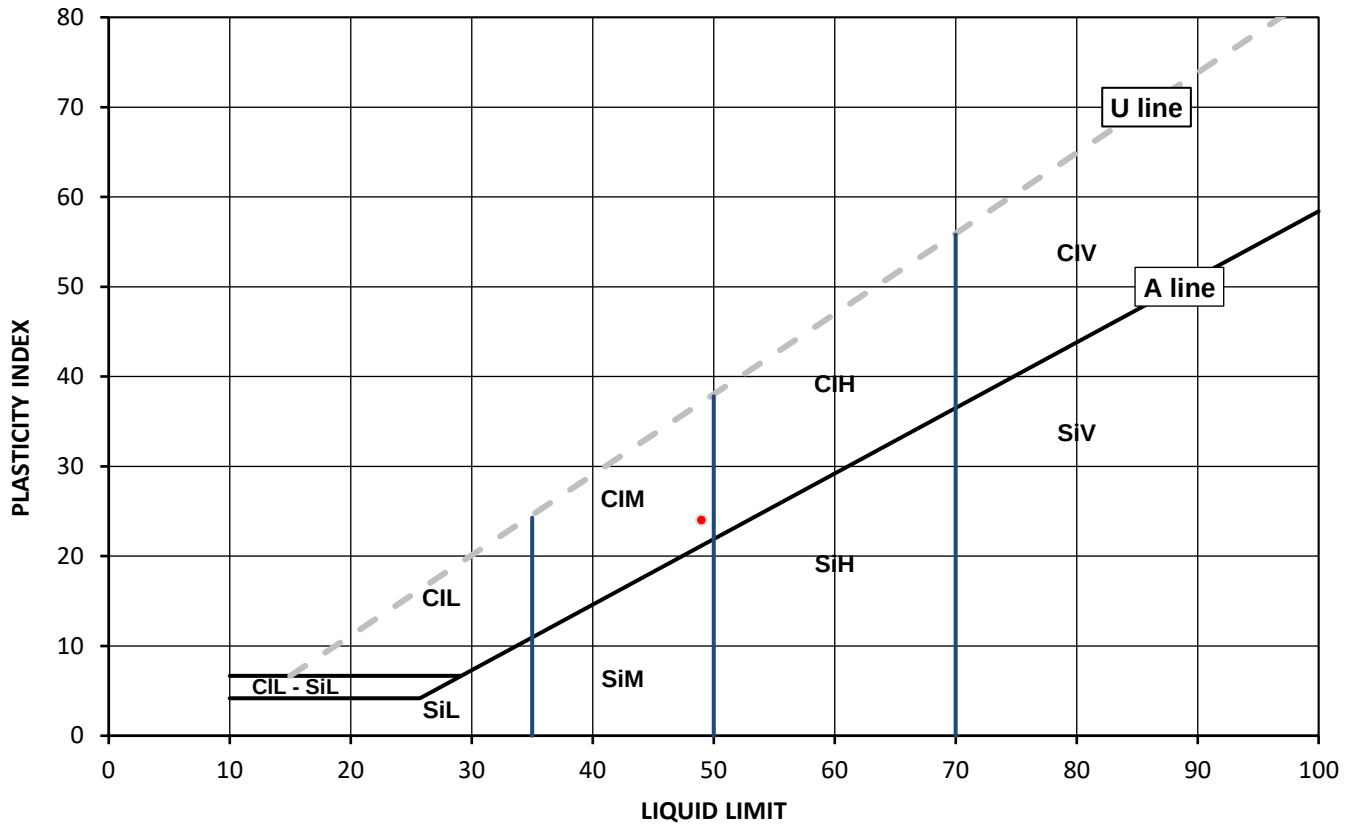
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Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128584	Depth Top [m]:	1.20
Hole No.:	WS202	Depth Base [m]:	1.65
Sample Reference:	4	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
26	49	25	24	70



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: Preliminary report 2

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TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

UKAS TESTING 4041

Environmental Science

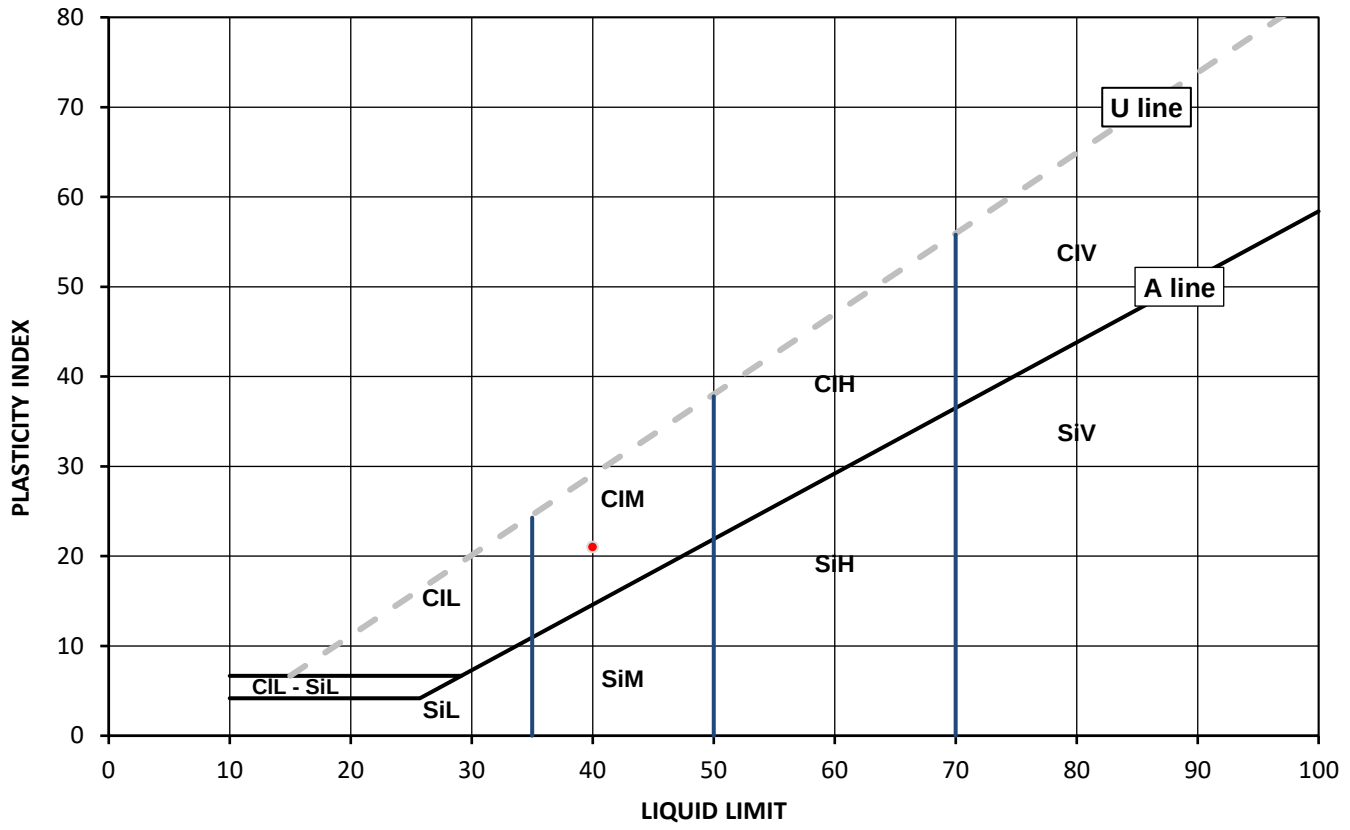
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128585	Depth Top [m]:	4.90
Hole No.:	MPBH709	Depth Base [m]:	4.90
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
17	40	19	21	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: Preliminary report 2

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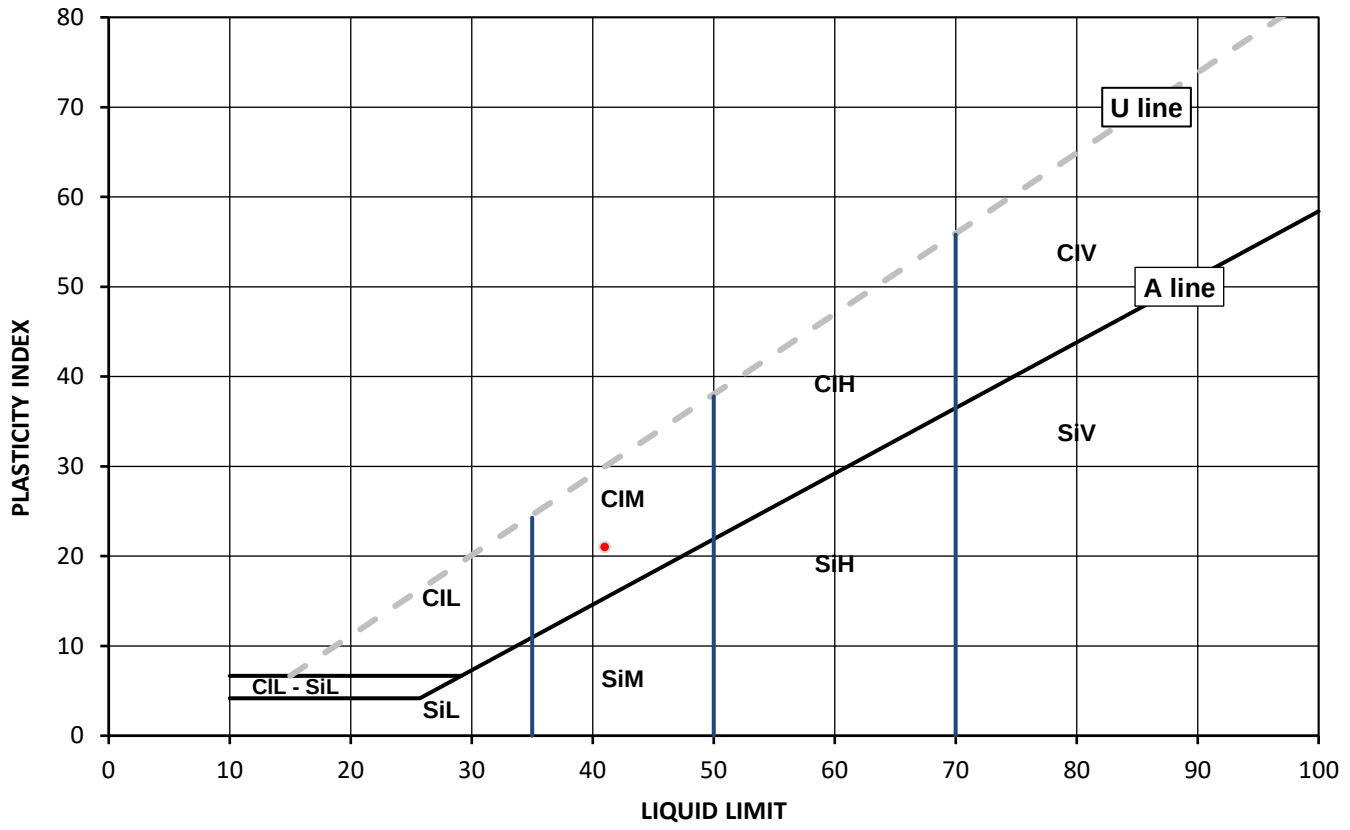
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128586	Depth Top [m]:	1.50
Hole No.:	MPBH701	Depth Base [m]:	2.00
Sample Reference:	3	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy CLAY		
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
19	41	20	21	98



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: Preliminary report 2

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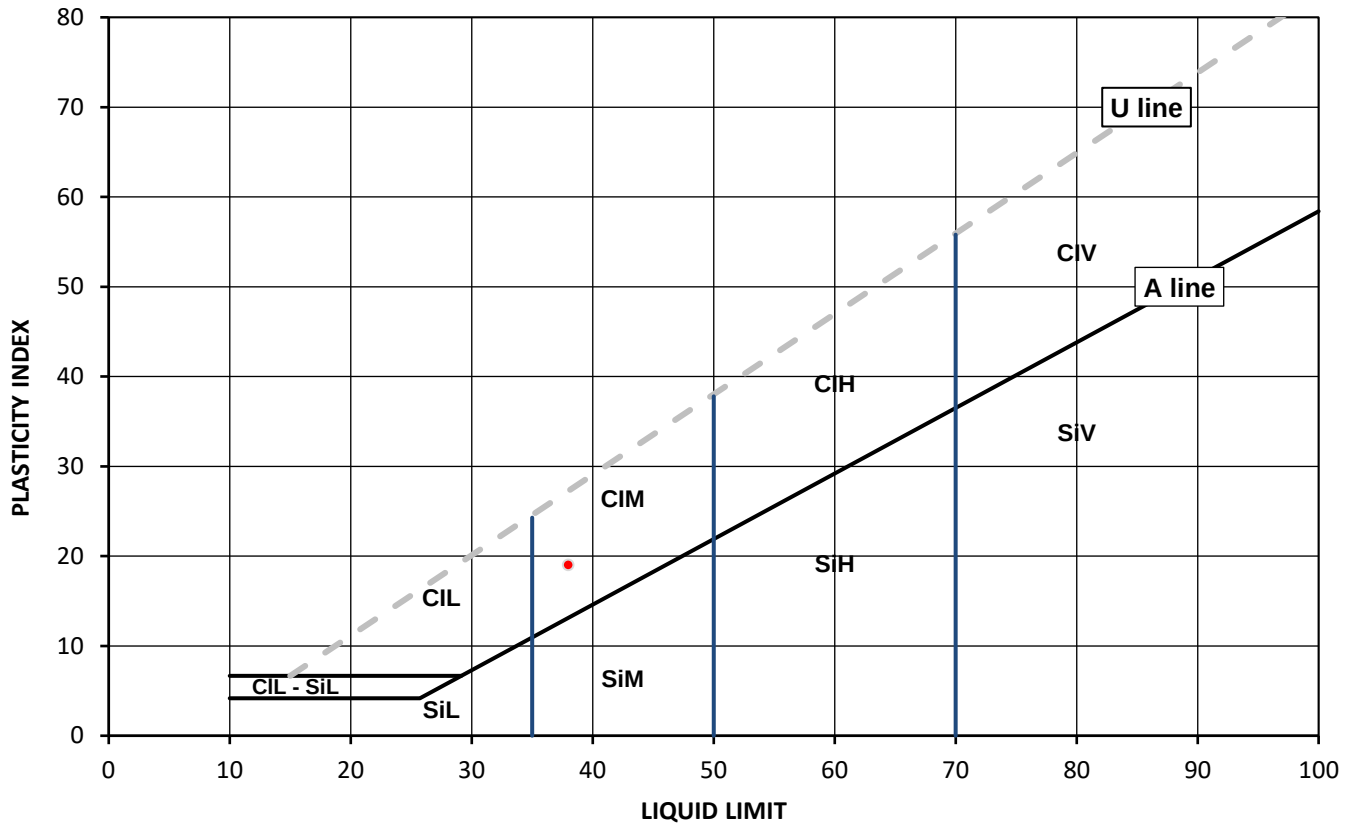
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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128588	Depth Top [m]:	1.87
Hole No.:	TP712	Depth Base [m]:	1.87
Sample Reference:	4	Sample Type:	D
Sample Description:	Dark brown slightly gravelly sandy CLAY		
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
18	38	19	19	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)

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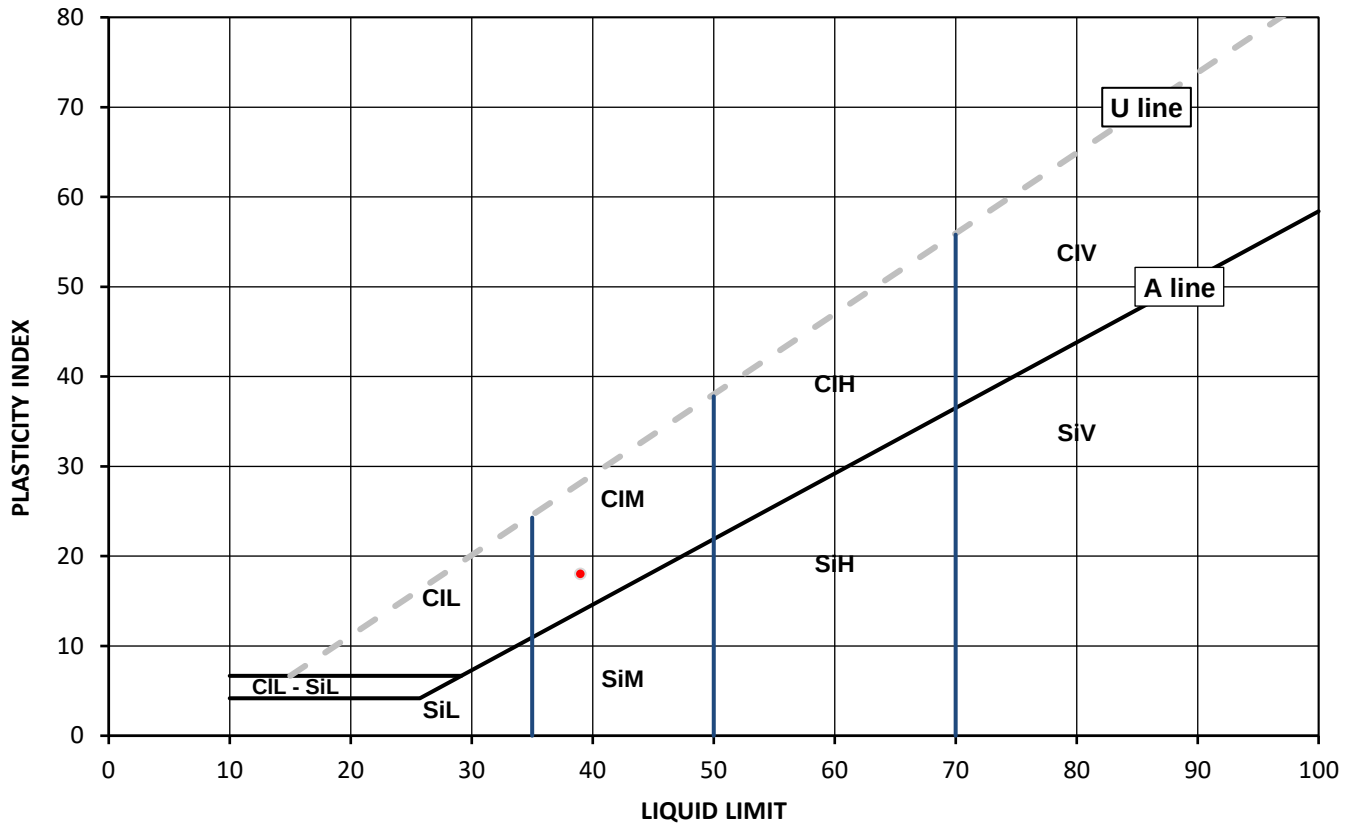
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Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128589	Depth Top [m]:	1.90
Hole No.:	TP716	Depth Base [m]:	1.90
Sample Reference:	6	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
19	39	21	18	95



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)

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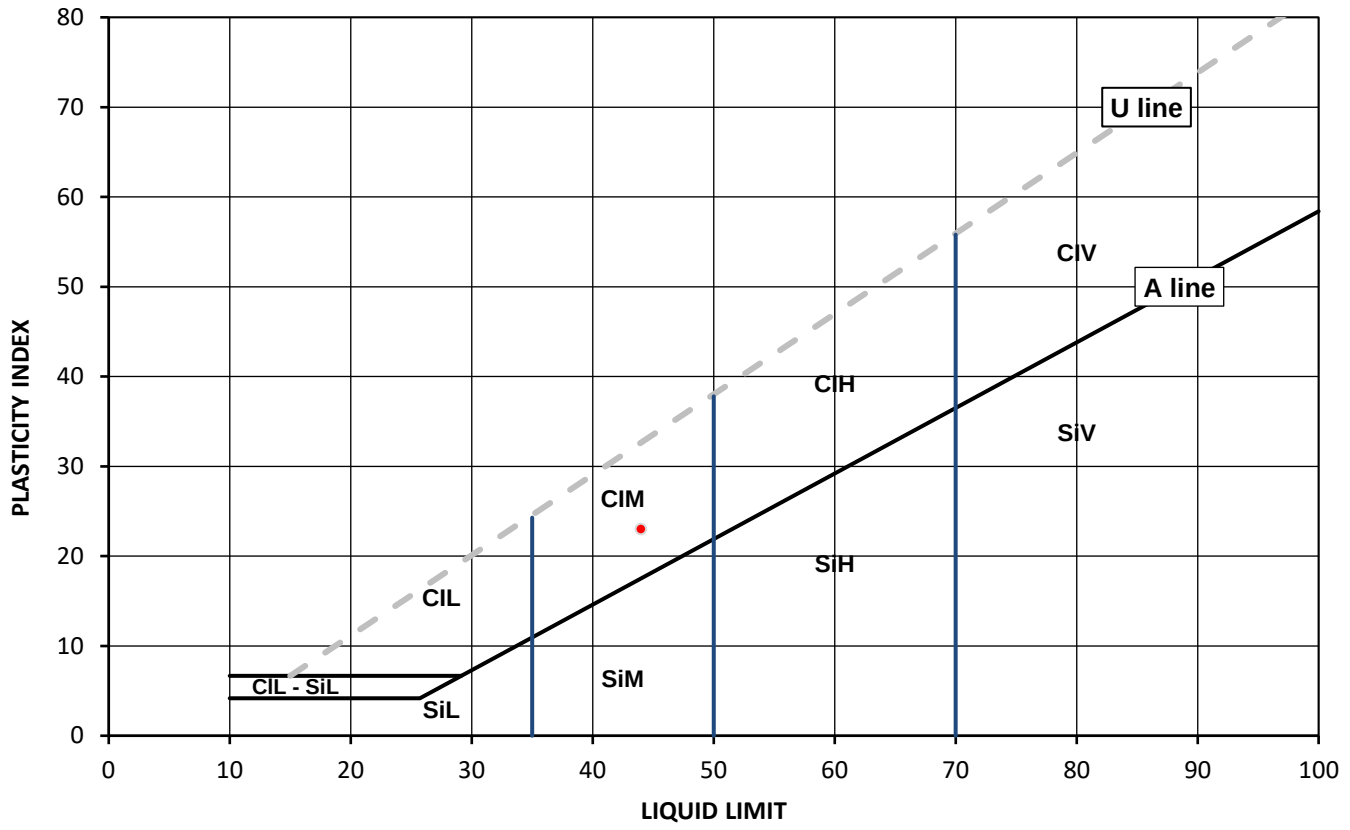
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		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128590	Depth Top [m]:	1.80
Hole No.:	TP720	Depth Base [m]:	1.80
Sample Reference:	5	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
23	44	21	23	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: Preliminary report 2

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: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

4041

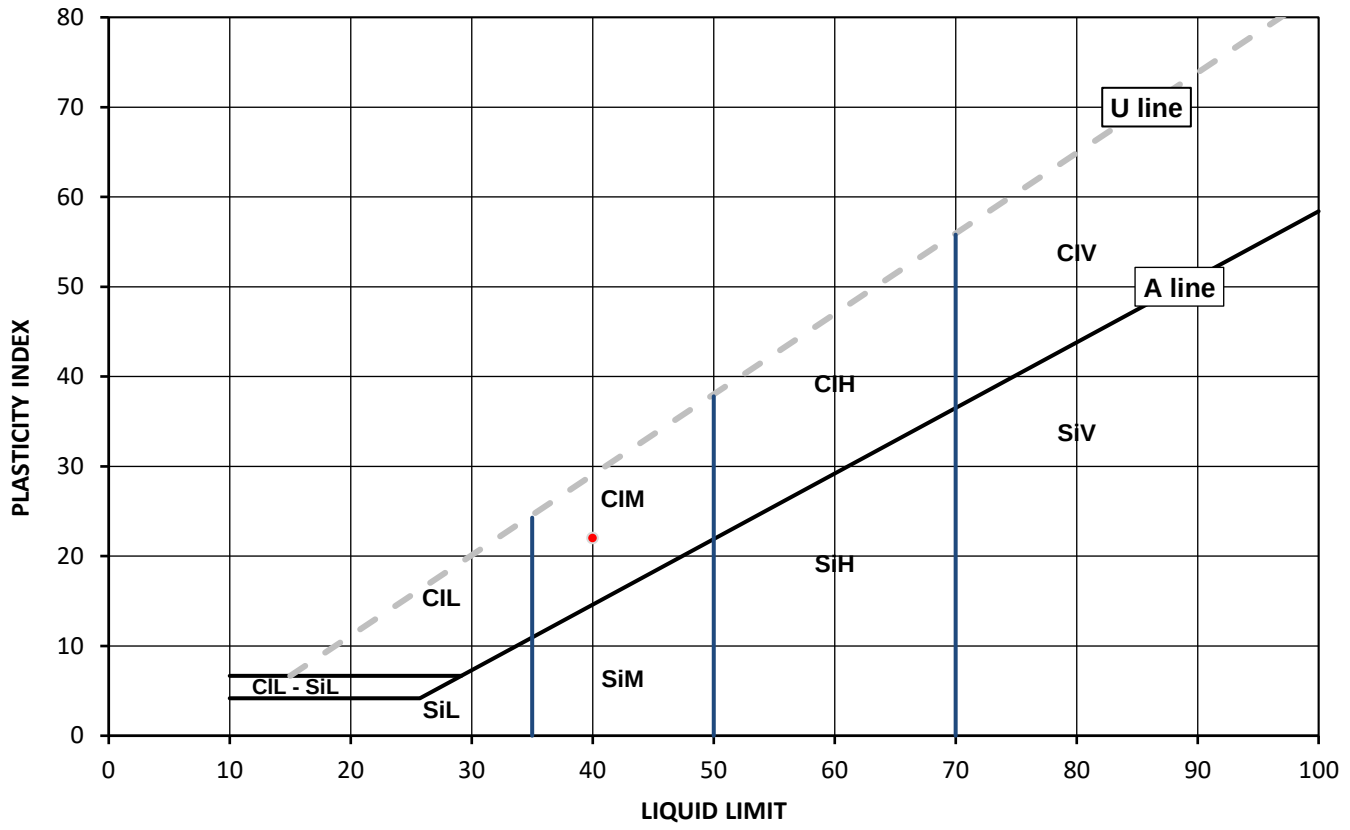
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128593	Depth Top [m]:	4.30
Hole No.:	MPBH714	Depth Base [m]:	4.30
Sample Reference:	3	Sample Type:	D
Sample Description:	Brown slightly gravelly 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
21	40	18	22	80



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: Preliminary report 2

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Katarzyna Koziel
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for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS
Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

UKAS TESTING
4041

Environmental Science

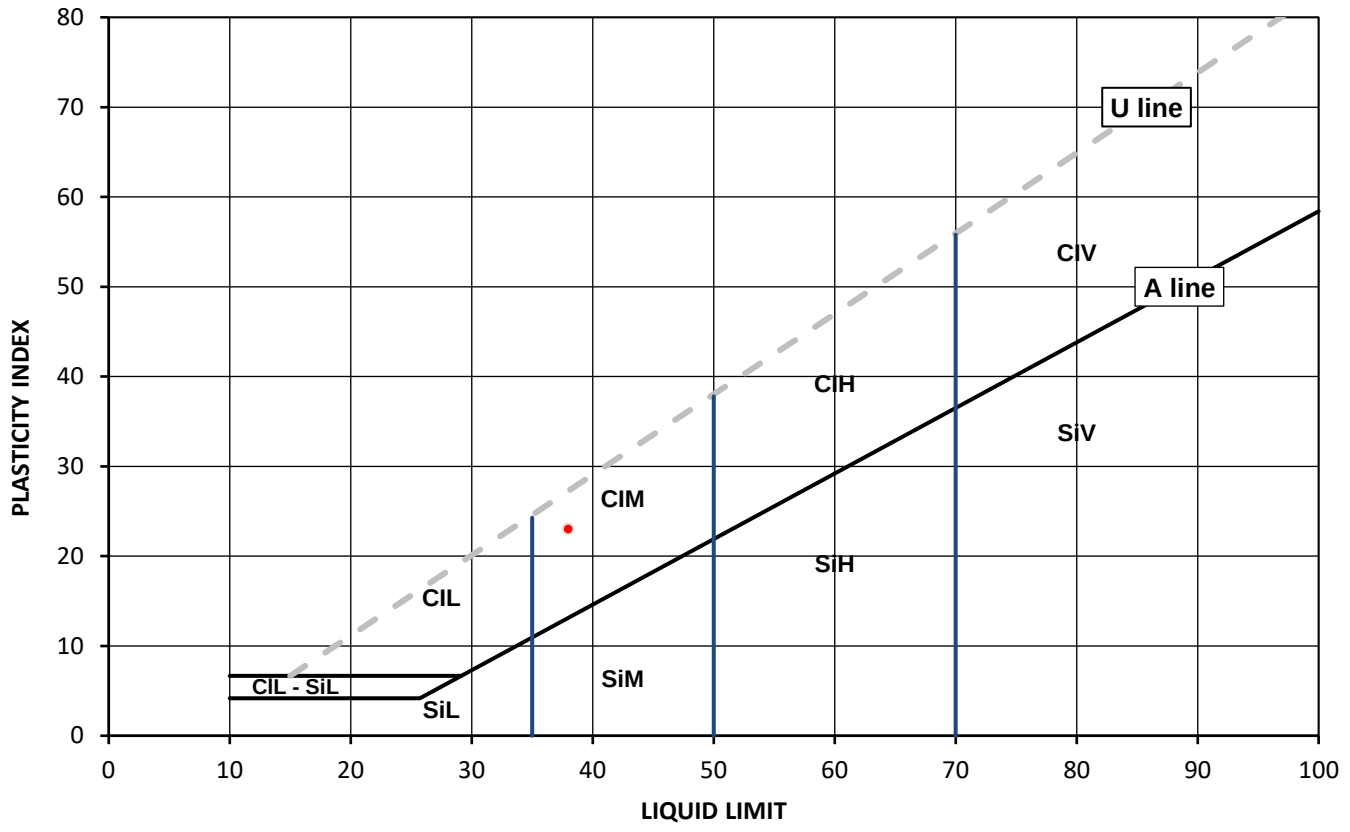
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128594	Depth Top [m]:	6.20
Hole No.:	MPBH714	Depth Base [m]:	6.20
Sample Reference:	4	Sample Type:	D
Sample Description:	Brown slightly gravelly sandy CLAY		
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
16	38	15	23	92



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: Preliminary report 2

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for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

4041

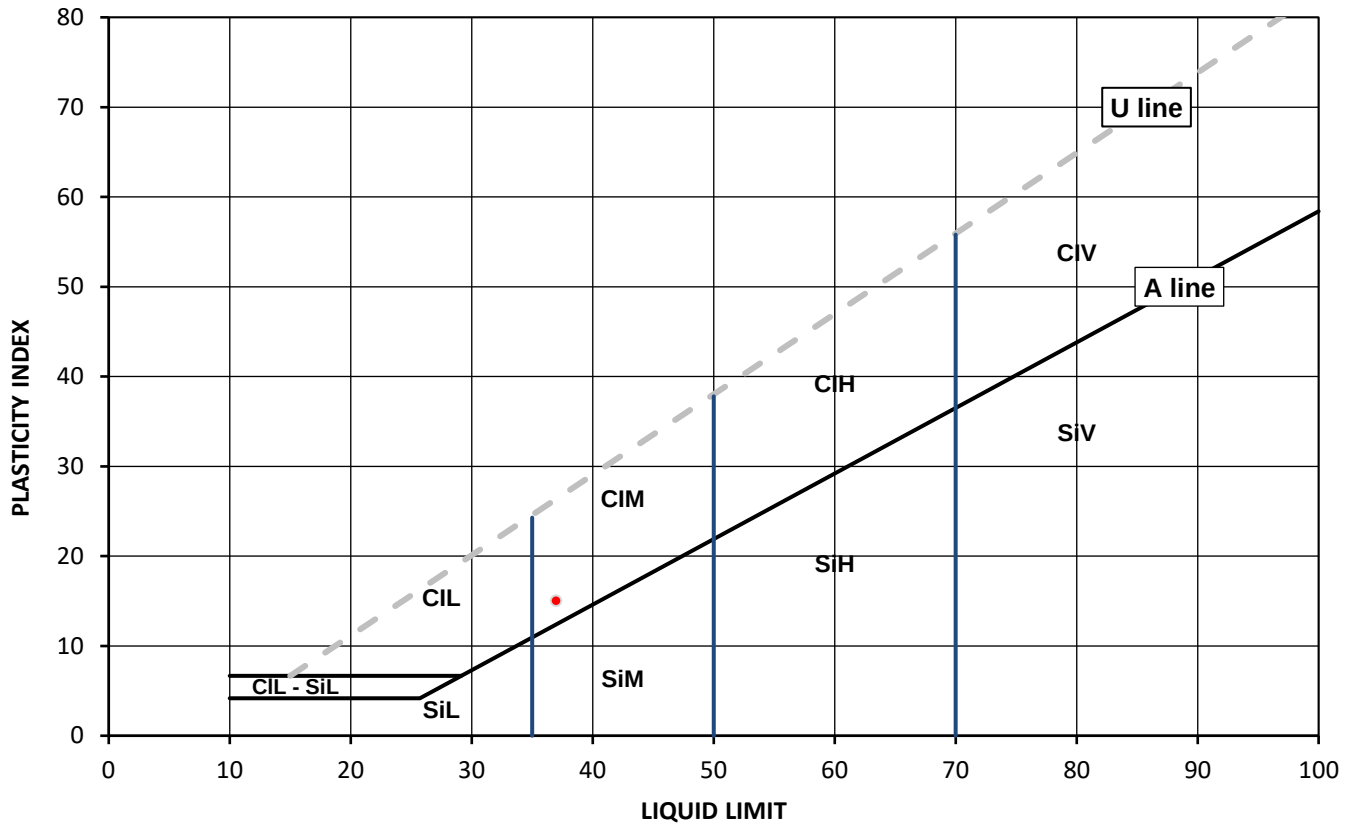
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128606	Depth Top [m]:	0.40
Hole No.:	TP722	Depth Base [m]:	0.60
Sample Reference:	4	Sample Type:	B
Sample Description:	Yellowish brown gravelly sandy CLAY		
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
14	37	22	15	51



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: Preliminary report 2

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for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 236.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with:BS 1377-2:1990:Clause 4.3 and 5

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

UKAS TESTING 4041

Environmental Science

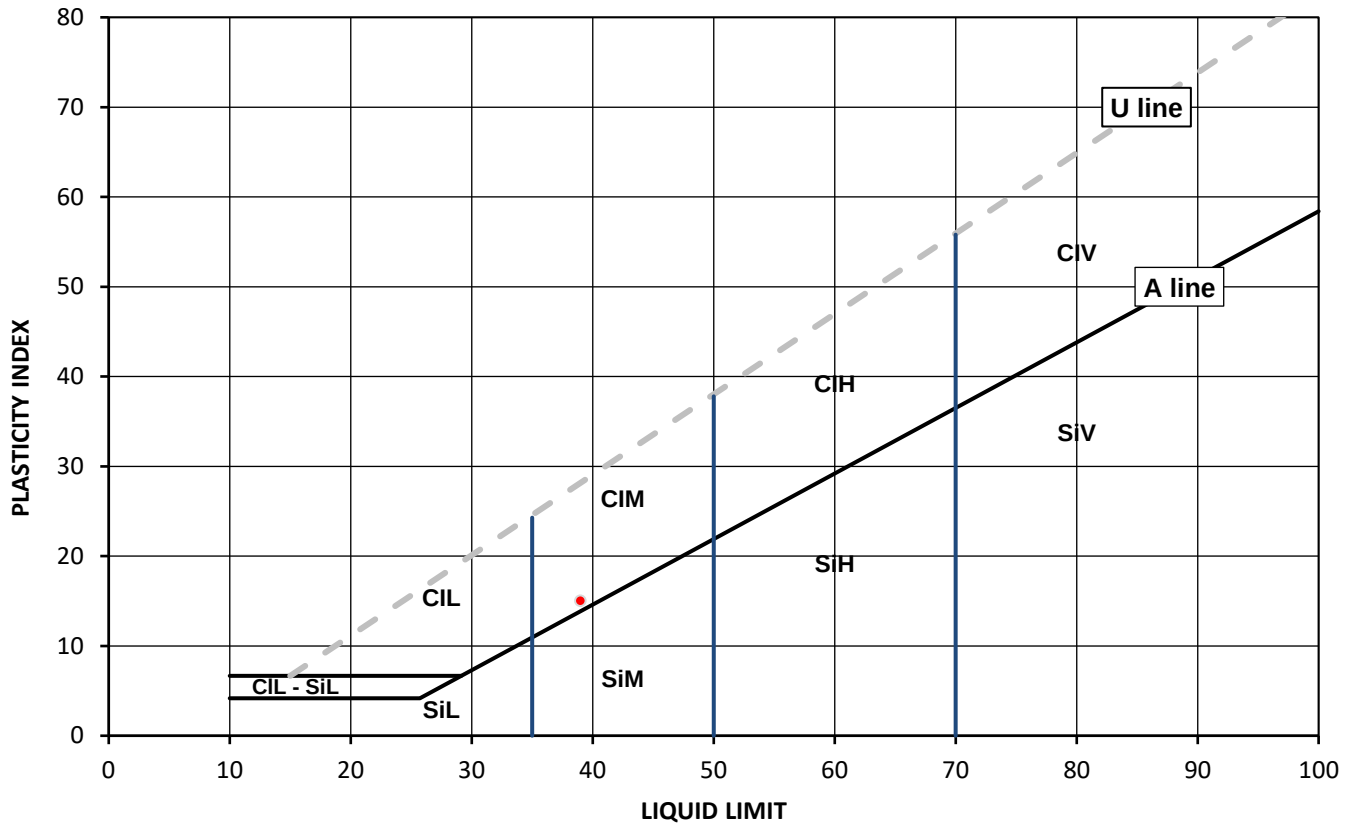
Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128608	Depth Top [m]:	0.00
Hole No.:	MPBH710	Depth Base [m]:	1.10
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown sandy clayey GRAVEL		
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
11	39	24	15	20



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: Preliminary report 2

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Katarzyna Koziel
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for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 236.12

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

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: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128586	MPBH701	3	1.50	2.00	B	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		98	41	20	21						
2128587	MPBH701	12	2.00	2.45	D	Brown slightly gravelly slightly sandy CLAY		20											
2128570	MPBH702	2	1.50	1.95	D	Brownish grey slightly gravelly slightly sandy CLAY	Atterberg 1 Point	23		92	47	27	20						
2128571	MPBH702	11	2.60	3.00	B	Dark brown slightly gravelly sandy CLAY	Atterberg 4 Point	16		99	35	16	19						
2128568	MPBH703	16	3.50	3.95	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15		93	39	19	20						
2128569	MPBH703	13	12.00	12.45	D	Brown slightly sandy CLAY	Atterberg 4 Point	22		100	47	21	26						
2128573	MPBH704	2	1.20	1.65	D	Brown sandy CLAY	Atterberg 4 Point	19		100	39	20	19						
2128574	MPBH704	5	2.00	2.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		96	40	17	23						
2128557	MPBH704	6	3.00	3.45	U	Dark brown slightly gravelly sandy CLAY	Atterberg 4 Point	16		91	36	19	17						
2128572	MPBH705	3	2.20	2.20	D	Greyish brown slightly gravelly sandy CLAY	Atterberg 4 Point	11		98	39	19	20						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

; 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
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128613	MPBH705	5	3.00	4.00	B	Brown gravelly very sandy very clayey SILT										2.70			
2128578	MPBH707	8	6.00	6.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		97	41	19	22						
2128585	MPBH709	5	4.90	4.90	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		81	40	19	21						
2128559	MPBH709	6	5.00	5.45	U	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		90	39	18	21						
2128608	MPBH710	1	0.00	1.10	B	Brown sandy clayey GRAVEL	Atterberg 4 Point	11		20	39	24	15						
2128579	MPBH710	9	10.00	10.45	D	Brown slightly gravelly slightly sandy CLAY		10											
2128575	MPBH711	5	5.00	5.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15		95	36	18	18						
2128576	MPBH711	10	8.00	8.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		97	39	17	22						
2128599	MPBH713	2	0.50	1.20	B	Dark grey slightly gravelly CLAY		20											
2128565	MPBH713	8	3.00	3.45	U	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		81	39	21	18						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

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: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 11/01 - 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128577	MPBH713	18	7.00	7.45	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		94	40	19	21						
2128592	MPBH714	2	2.50	2.50	D	Brownish grey clayey very sandy GRAVEL		18											
2128593	MPBH714	3	4.30	4.30	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	21		80	40	18	22						
2128594	MPBH714	4	6.20	6.20	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	16		92	38	15	23						
2128600	MPBH715	3	1.20	1.70	B	Dark grey gravelly CLAY		14											
2128562	MPBH715	7	3.00	3.45	U	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	15		95	35	18	17						
2128564	MPBH715	16	7.50	7.95	U	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	16		90	33	16	17						
2128580	MPBH715	18	9.00	9.45	D	Brown slightly gravelly clayey SAND	Atterberg 4 Point	9.2		89	25	12	13						
2128603	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL with cobbles		9.0								2.66			
2128597	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL		9.6											

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128604	TP711	1	0.45	0.60	B	Dark grey gravelly CLAY		6.3								2.67			
2128588	TP712	4	1.87	1.87	D	Dark brown slightly gravelly sandy CLAY	Atterberg 4 Point	18		99	38	19	19						
2128607	TP715	6	1.20	1.40	B	Brown CLAY										2.72			
2128605	TP716	2	0.30	0.60	B	Dark brown sandy very gravelly CLAY										2.56			
2128589	TP716	6	1.90	1.90	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	19		95	39	21	18						
2128590	TP720	5	1.80	1.80	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	23		91	44	21	23						
2128606	TP722	4	0.40	0.60	B	Yellowish brown gravelly sandy CLAY	Atterberg 4 Point	14		51	37	22	15						
2128584	WS202	4	1.20	1.65	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	26		70	49	25	24						
2128598	WS701	3	0.70	1.20	B	Brown slightly gravelly CLAY		18											
2128581	WS701	5	1.20	1.65	D	Brown slightly gravelly sandy CLAY	Atterberg 4 Point	17		99	40	20	20						

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

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: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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 17892-2 [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	%		
2128601	WS702	2	0.60	1.00	B	Black gravelly clayey SAND		22											
2128582	WS702	9	3.00	3.45	D	Brown slightly gravelly very sandy CLAY	Atterberg 4 Point	15		94	33	17	16						
2128583	WS703	3	1.75	1.75	D	Brown slightly gravelly slightly sandy CLAY	Atterberg 4 Point	27		84	46	22	24						
2128595	WS704	1	0.30	0.40	B	Brown gravelly sandy CLAY		18											
2128596	WS704	9	2.50	3.00	B	Greyish brown slightly gravelly CLAY		16											

Note: # Non accredited; NP - Non plastic

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 238.14

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: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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			%				
2128586	MPBH701	3	1.50	2.00	B	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 106 °C			
2128587	MPBH701	12	2.00	2.45	D	Brown slightly gravelly slightly sandy CLAY		20	Sample was quartered, oven dried at 109 °C			
2128570	MPBH702	2	1.50	1.95	D	Brownish grey slightly gravelly slightly sandy CLAY		23	Sample was quartered, oven dried at 109 °C			
2128571	MPBH702	11	2.60	3.00	B	Dark brown slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 109 °C			
2128568	MPBH703	16	3.50	3.95	D	Brown slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128569	MPBH703	13	12.00	12.45	D	Brown slightly sandy CLAY		22	Sample was quartered, oven dried at 109 °C			
2128573	MPBH704	2	1.20	1.65	D	Brown sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128574	MPBH704	5	2.00	2.45	D	Brown slightly gravelly sandy CLAY		19	Sample was whole tested, oven dried at 109 °C			
2128557	MPBH704	6	3.00	3.45	U	Dark brown slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 107 °C			
2128572	MPBH705	3	2.20	2.20	D	Greyish brown slightly gravelly sandy CLAY		11	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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
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Northampton NN4 7EB

4041

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Date Tested: 12/01/2022
Sampled By: Client - R.S

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			%				
2128578	MPBH707	8	6.00	6.45	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128585	MPBH709	5	4.90	4.90	D	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128559	MPBH709	6	5.00	5.45	U	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128608	MPBH710	1	0.00	1.10	B	Brown sandy clayey GRAVEL		11	Sample was quartered, oven dried at 106.2 °C			
2128579	MPBH710	9	10.00	10.45	D	Brown slightly gravelly slightly sandy CLAY		10	Sample was quartered, oven dried at 109 °C			
2128575	MPBH711	5	5.00	5.45	D	Brown slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128576	MPBH711	10	8.00	8.45	D	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128599	MPBH713	2	0.50	1.20	B	Dark grey slightly gravelly CLAY		20	Sample was quartered, oven dried at 109 °C			
2128565	MPBH713	8	3.00	3.45	U	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128577	MPBH713	18	7.00	7.45	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

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Sampled By: Client - R.S

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			%				
2128592	MPBH714	2	2.50	2.50	D	Brownish grey clayey very sandy GRAVEL		18	Sample was quartered, oven dried at 106 °C			
2128593	MPBH714	3	4.30	4.30	D	Brown slightly gravelly sandy CLAY		21	Sample was quartered, oven dried at 109 °C			
2128594	MPBH714	4	6.20	6.20	D	Brown slightly gravelly sandy CLAY		16	Sample was quartered, oven dried at 109 °C			
2128600	MPBH715	3	1.20	1.70	B	Dark grey gravelly CLAY		14	Sample was quartered, oven dried at 109 °C			
2128562	MPBH715	7	3.00	3.45	U	Brown slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128564	MPBH715	16	7.50	7.95	U	Brown slightly gravelly very sandy CLAY		16	Sample was quartered, oven dried at 109 °C			
2128580	MPBH715	18	9.00	9.45	D	Brown slightly gravelly clayey SAND		9.2	Sample was quartered, oven dried at 109 °C			
2128603	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL with cobbles		9.0	Sample was quartered, oven dried at 106.6 °C			
2128597	TP709	1	0.20	0.50	B	Brown clayey sandy GRAVEL		9.6	Sample was quartered, oven dried at 109 °C			
2128604	TP711	1	0.45	0.60	B	Dark grey gravelly CLAY		6.3	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

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SUMMARY REPORT

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Sampled By: Client - R.S

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			%				
2128588	TP712	4	1.87	1.87	D	Dark brown slightly gravelly sandy CLAY		18	Sample was quartered, oven dried at 109 °C			
2128589	TP716	6	1.90	1.90	D	Brown slightly gravelly sandy CLAY		19	Sample was quartered, oven dried at 109 °C			
2128590	TP720	5	1.80	1.80	D	Brown slightly gravelly sandy CLAY		23	Sample was quartered, oven dried at 109 °C			
2128606	TP722	4	0.40	0.60	B	Yellowish brown gravelly sandy CLAY		14	Sample was quartered, oven dried at 106.5 °C			
2128584	WS202	4	1.20	1.65	D	Brown slightly gravelly slightly sandy CLAY		26	Sample was quartered, oven dried at 109 °C			
2128598	WS701	3	0.70	1.20	B	Brown slightly gravelly CLAY		18	Sample was quartered, oven dried at 106 °C			
2128581	WS701	5	1.20	1.65	D	Brown slightly gravelly sandy CLAY		17	Sample was quartered, oven dried at 109 °C			
2128601	WS702	2	0.60	1.00	B	Black gravelly clayey SAND		22	Sample was quartered, oven dried at 109 °C			
2128582	WS702	9	3.00	3.45	D	Brown slightly gravelly very sandy CLAY		15	Sample was quartered, oven dried at 109 °C			
2128583	WS703	3	1.75	1.75	D	Brown slightly gravelly slightly sandy CLAY		27	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

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Date Tested: 12/01/2022
Sampled By: Client - R.S

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			%				
2128595	WS704	1	0.30	0.40	B	Brown gravelly sandy CLAY		18	Sample was quartered, oven dried at 106 °C			
2128596	WS704	9	2.50	3.00	B	Greyish brown slightly gravelly CLAY		16	Sample was quartered, oven dried at 109 °C			

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
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Date Reported: 19/01/2022

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

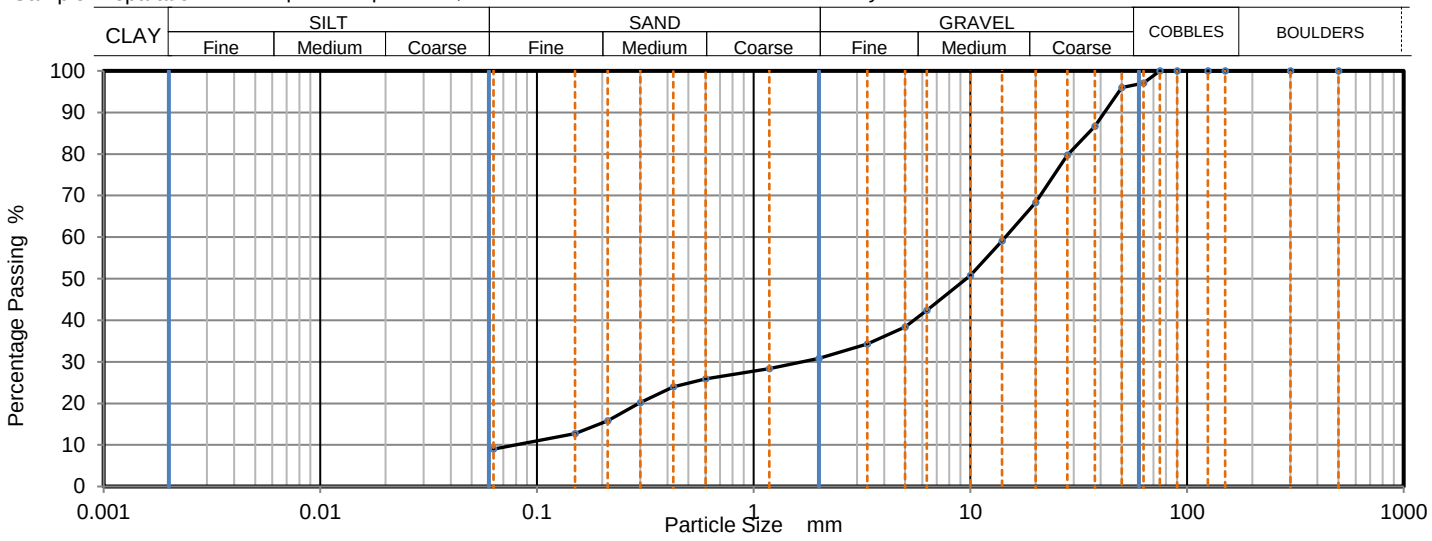
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128603	Depth Top [m]:	0.20
Hole No.:	TP709	Depth Base [m]:	0.50
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL with cobbles		
Sample Preparation:	Sample was quartered, oven dried at 106.6 °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	97		
50	96		
37.5	87		
28	80		
20	68		
14	59		
10	51		
6.3	42		
5	38		
3.35	34		
2	31		
1.18	28		
0.6	26		
0.425	24		
0.3	20		
0.212	16		
0.15	13		
0.063	9		

Sample Proportions	% dry mass
Very coarse	3
Gravel	66
Sand	21
Fines <0.063mm	9

Grading Analysis		
D100	mm	75
D60	mm	14.5
D30	mm	1.68
D10	mm	0.0737
Uniformity Coefficient		200
Curvature Coefficient		2.6

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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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

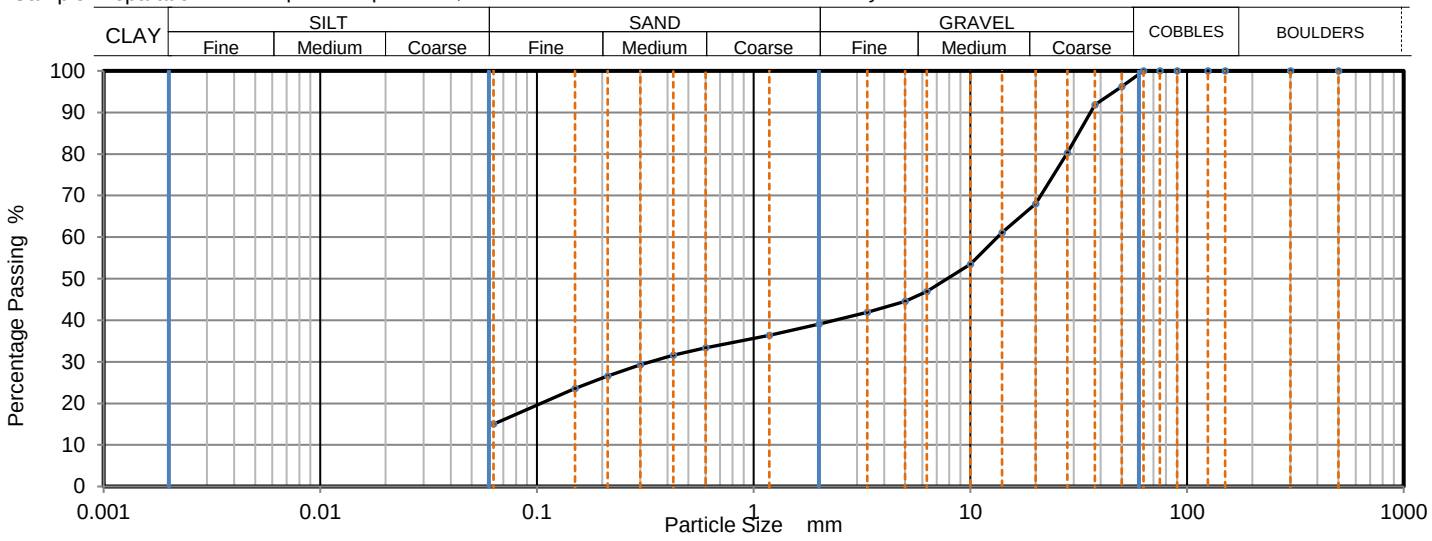
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128605	Depth Top [m]:	0.30
Hole No.:	TP716	Depth Base [m]:	0.60
Sample Reference:	2	Sample Type:	B
Sample Description:	Dark brown clayey sandy GRAVEL		
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	100		
50	96		
37.5	92		
28	80		
20	68		
14	61		
10	54		
6.3	47		
5	45		
3.35	42		
2	39		
1.18	36		
0.6	33		
0.425	32		
0.3	29		
0.212	27		
0.15	24		
0.063	16		

Sample Proportions	% dry mass
Very coarse	0
Gravel	61
Sand	23
Fines <0.063mm	16

Grading Analysis		
D100	mm	63
D60	mm	13.3
D30	mm	0.334
D10	mm	
Uniformity Coefficient		> 210
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
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Date Reported: 19/01/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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

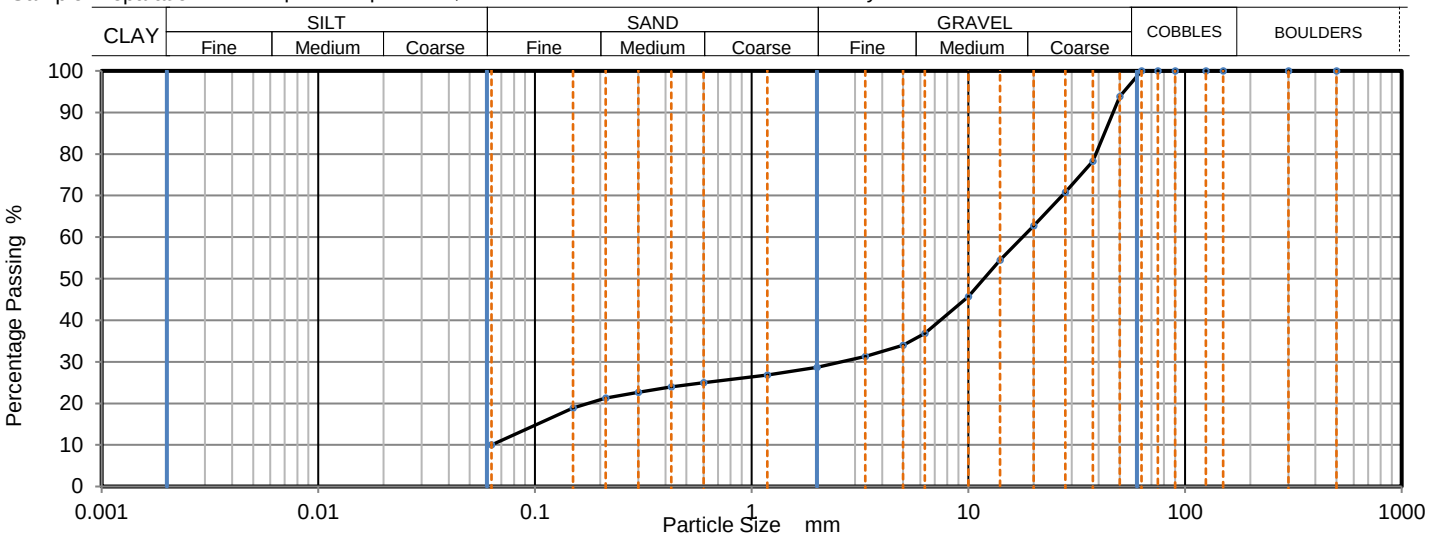
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128608	Depth Top [m]:	0.00
Hole No.:	MPBH710	Depth Base [m]:	1.10
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown sandy clayey GRAVEL		
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		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	94		
37.5	78		
28	71		
20	63		
14	55		
10	46		
6.3	37		
5	34		
3.35	31		
2	29		
1.18	27		
0.6	25		
0.425	24		
0.3	23		
0.212	21		
0.15	19		
0.063	11		

Sample Proportions	% dry mass
Very coarse	0
Gravel	71
Sand	18
Fines <0.063mm	11

Grading Analysis		
D100	mm	63
D60	mm	17.8
D30	mm	2.6
D10	mm	
Uniformity Coefficient		> 280
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: Preliminary report 2

Signed: Katarzyna Koziel

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Date Reported: 19/01/2022

GF 100.21

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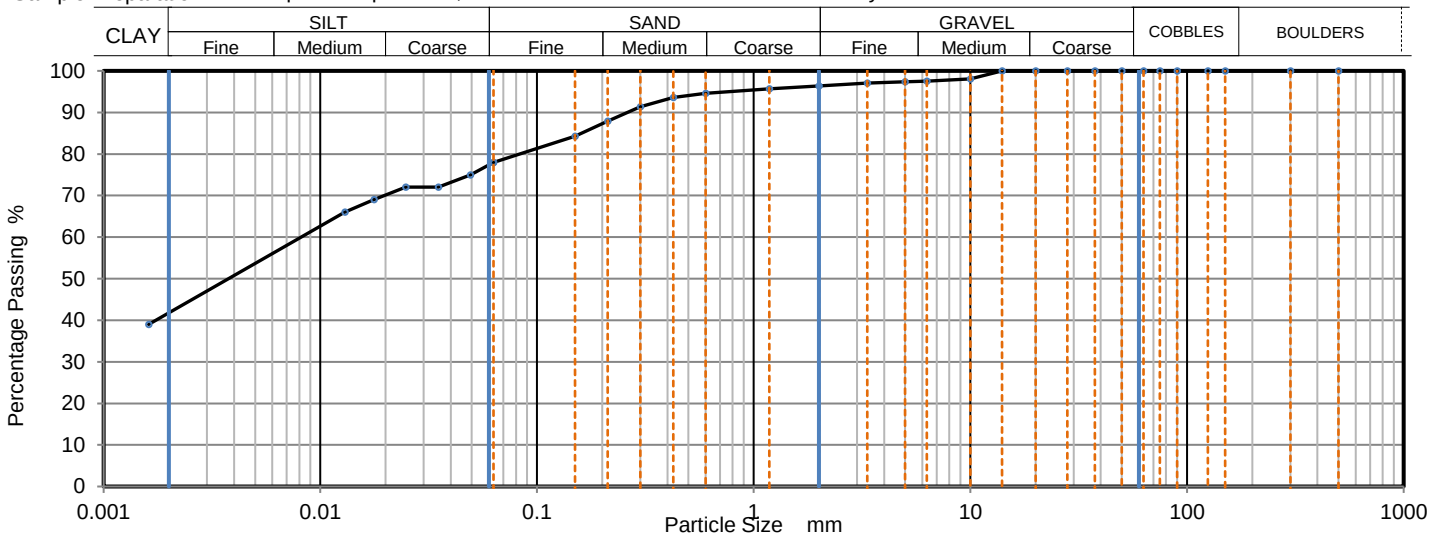
4041

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Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128609	Depth Top [m]:	2.60
Hole No.:	MPBH702	Depth Base [m]:	3.00
Sample Reference:	11	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly sandy very silty CLAY		
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	78
300	100	0.0493	75
150	100	0.0351	72
125	100	0.0248	72
90	100	0.0177	69
75	100	0.0130	66
63	100	0.0016	39
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	98		
6.3	98		
5	97		
3.35	97	Particle density	(assumed)
2	96	2.65	Mg/m3
1.18	96		
0.6	95		
0.425	94		
0.3	91		
0.212	88		
0.15	84		
0.063	78		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	18
Silt	36
Clay	42

Grading Analysis		
D100	mm	14
D60	mm	0.00802
D30	mm	
D10	mm	
Uniformity Coefficient		> 5
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
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Date Reported: 19/01/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

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i2 Analytical Ltd
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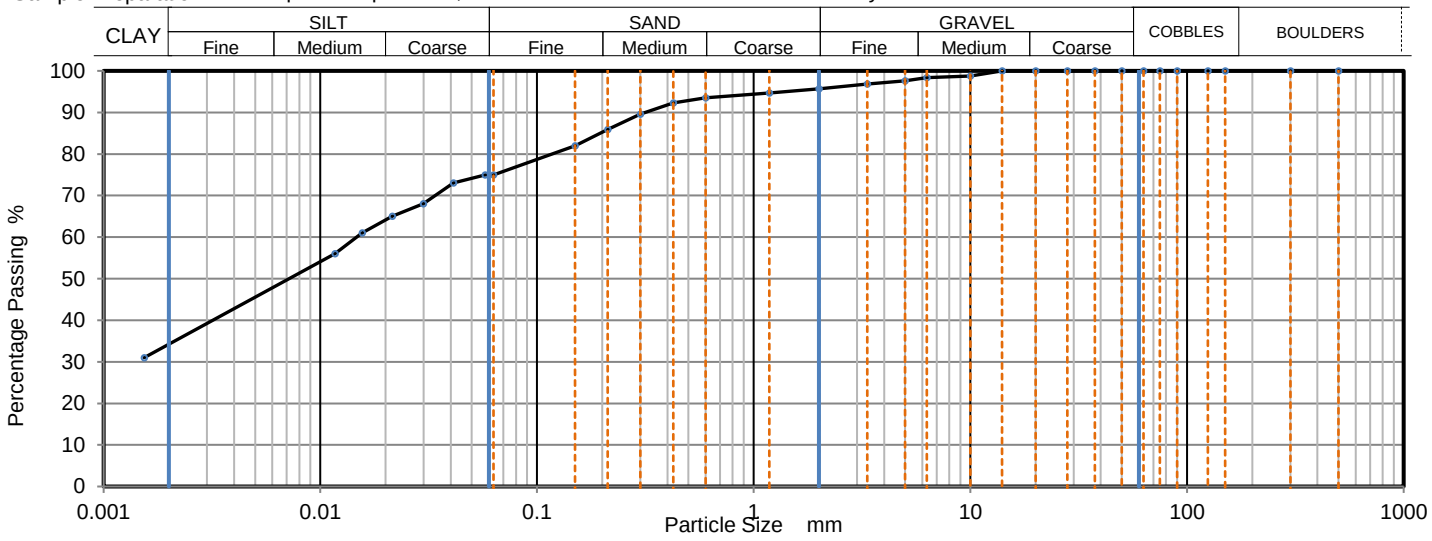
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128610	Depth Top [m]:	4.50
Hole No.:	MPBH711	Depth Base [m]:	6.00
Sample Reference:	15	Sample Type:	B
Sample Description:	Brown slightly gravelly sandy very clayey SILT		
Sample Preparation:	Sample was quartered, oven dried at 107.6 °C and broken down by hand.		



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0576	75
300	100	0.0411	73
150	100	0.0299	68
125	100	0.0215	65
90	100	0.0156	61
75	100	0.0117	56
63	100	0.0015	31
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	98		
3.35	97	Particle density	(assumed)
2	96	2.65	Mg/m3
1.18	95		
0.6	94		
0.425	92		
0.3	90		
0.212	86		
0.15	82		
0.063	75		

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	21
Silt	41
Clay	34

Grading Analysis		
D100	mm	14
D60	mm	0.0151
D30	mm	
D10	mm	
Uniformity Coefficient		> 9.8
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

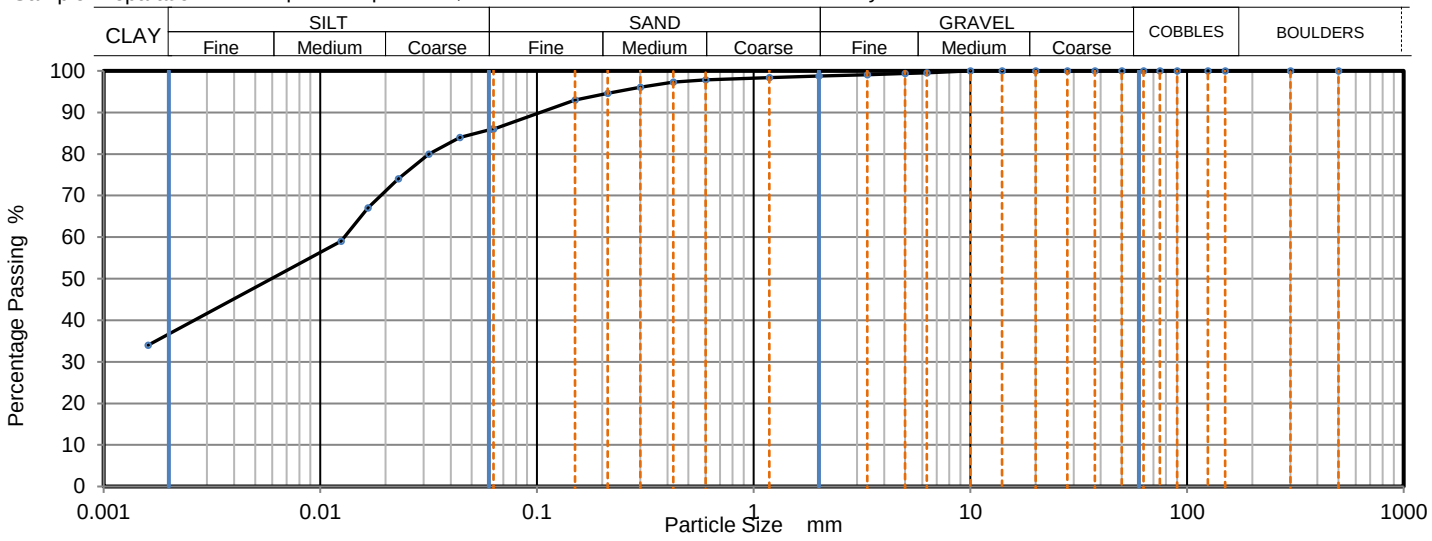
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128611	Depth Top [m]:	1.50
Hole No.:	MPBH704	Depth Base [m]:	2.00
Sample Reference:	3	Sample Type:	B
Sample Description:	Brown sandy very clayey 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	0.0618	86
300	100	0.0441	84
150	100	0.0317	80
125	100	0.0229	74
90	100	0.0166	67
75	100	0.0125	59
63	100	0.0016	34
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99	Particle density	(assumed)
2	99	2.65	Mg/m3
1.18	98		
0.6	98		
0.425	97		
0.3	96		
0.212	95		
0.15	93		
0.063	86		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	13
Silt	50
Clay	36

Grading Analysis		
D100	mm	10
D60	mm	0.013
D30	mm	
D10	mm	
Uniformity Coefficient		> 8.1
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
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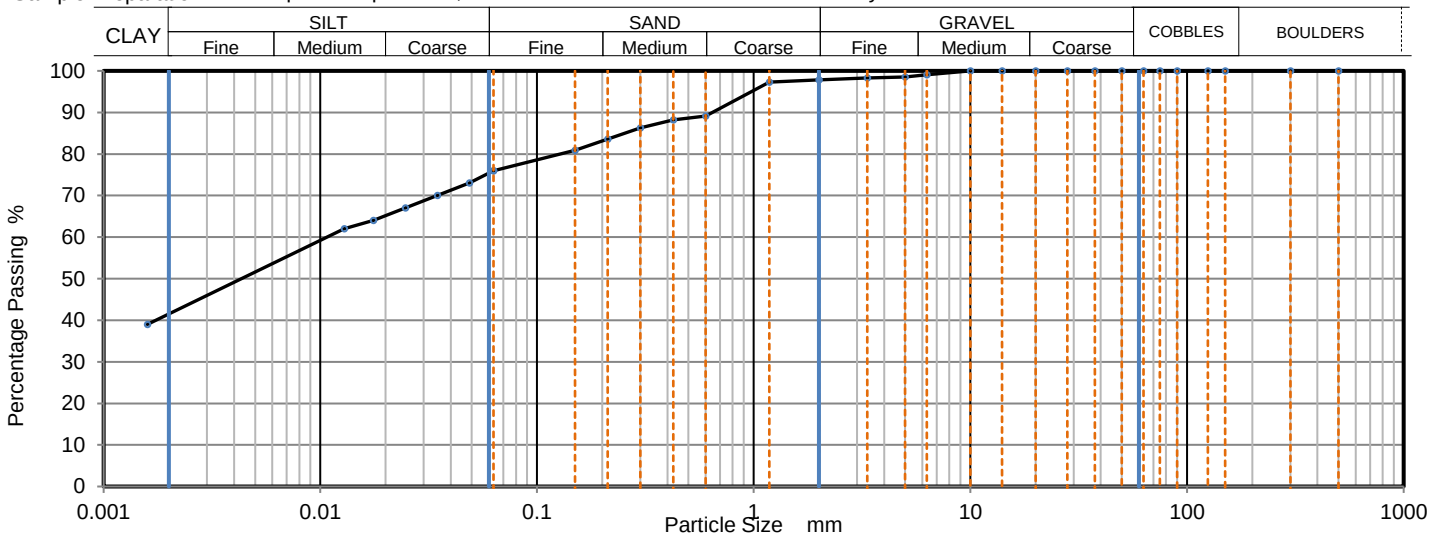
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128612	Depth Top [m]:	6.00
Hole No.:	MPBH709	Depth Base [m]:	6.45
Sample Reference:	9	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly very sandy very silty CLAY		
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	76
300	100	0.0487	73
150	100	0.0347	70
125	100	0.0247	67
90	100	0.0176	64
75	100	0.0129	62
63	100	0.0016	39
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	98	Particle density	(assumed)
2	98	2.65	Mg/m3
1.18	97		
0.6	89		
0.425	88		
0.3	86		
0.212	84		
0.15	81		
0.063	76		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	22
Silt	34
Clay	42

Grading Analysis		
D100	mm	10
D60	mm	0.011
D30	mm	
D10	mm	
Uniformity Coefficient		> 6.9
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: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

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Brackmills Industrial Estate
Northampton NN4 7EB

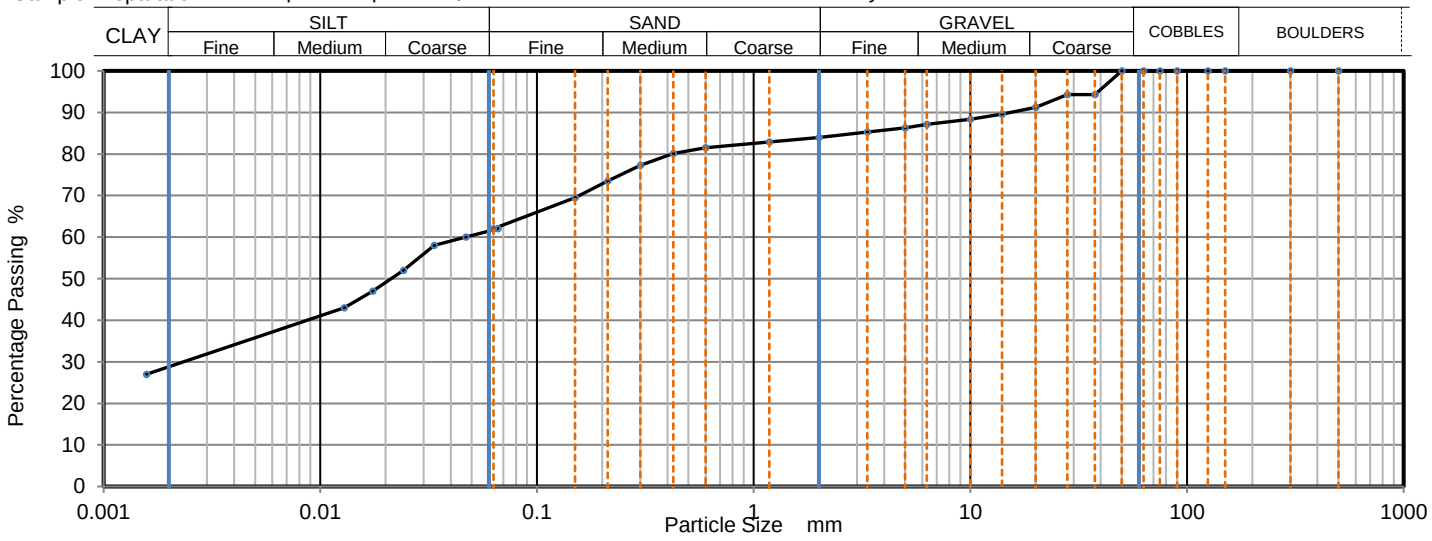
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128613	Depth Top [m]:	3.00
Hole No.:	MPBH705	Depth Base [m]:	4.00
Sample Reference:	5	Sample Type:	B
Sample Description:	Brown gravelly very sandy very clayey 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	0.0660	62
300	100	0.0470	60
150	100	0.0335	58
125	100	0.0242	52
90	100	0.0175	47
75	100	0.0129	43
63	100	0.0016	27
50	100		
37.5	94		
28	94		
20	91		
14	90		
10	88		
6.3	87		
5	86		
3.35	85	Particle density	(assumed)
2	84	2.65	Mg/m3
1.18	83		
0.6	82		
0.425	80		
0.3	77		
0.212	74		
0.15	70		
0.063	62		

Sample Proportions	% dry mass
Very coarse	0
Gravel	16
Sand	22
Silt	33
Clay	29

Grading Analysis		
D100	mm	50
D60	mm	0.0465
D30	mm	0.00233
D10	mm	
Uniformity Coefficient		> 30
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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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

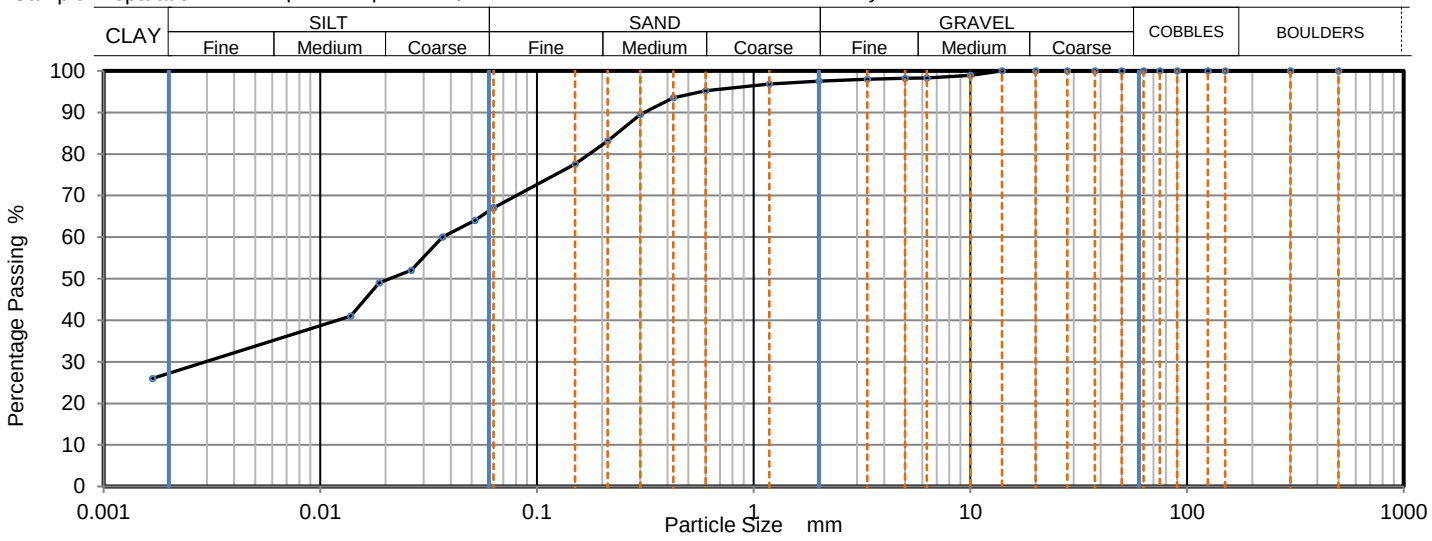
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128614	Depth Top [m]:	6.50
Hole No.:	MPBH714	Depth Base [m]:	7.00
Sample Reference:	6	Sample Type:	B
Sample Description:	Brown slightly 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	67
300	100	0.0516	64
150	100	0.0367	60
125	100	0.0263	52
90	100	0.0187	49
75	100	0.0138	41
63	100	0.0017	26
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	98		
5	98		
3.35	98	Particle density	(assumed)
2	98	2.65	Mg/m3
1.18	97		
0.6	95		
0.425	94		
0.3	90		
0.212	83		
0.15	78		
0.063	67		

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	30
Silt	41
Clay	27

Grading Analysis		
D100	mm	14
D60	mm	0.0373
D30	mm	0.00288
D10	mm	
Uniformity Coefficient		> 22
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
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Brackmills Industrial Estate
Northampton NN4 7EB

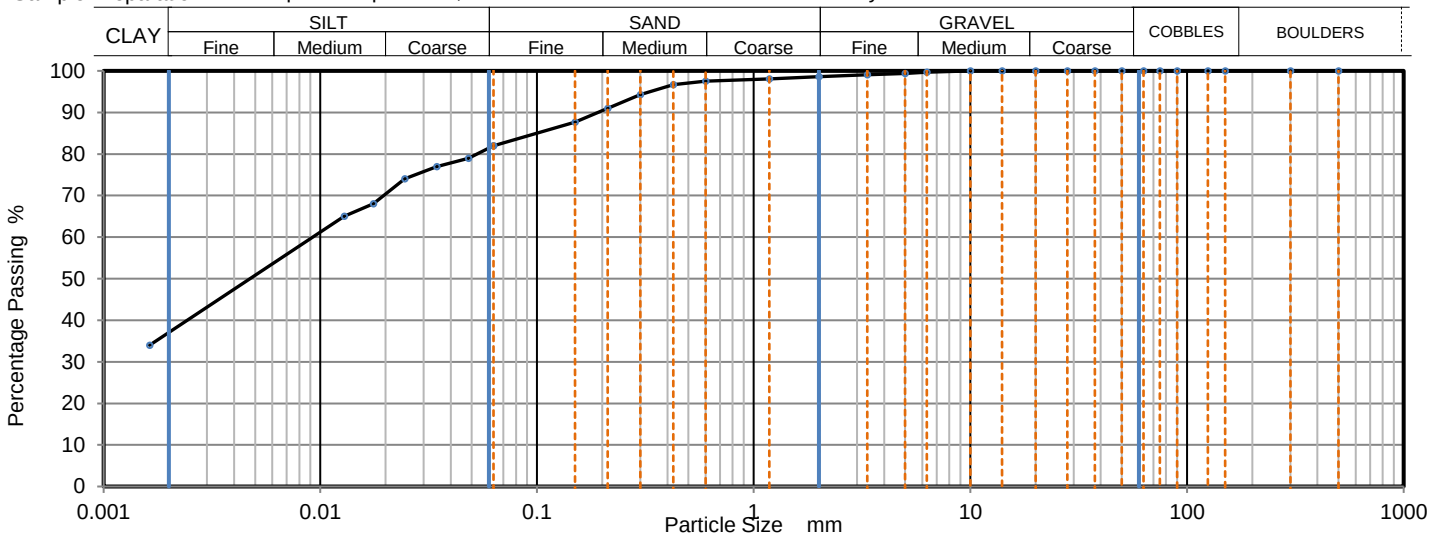
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128615	Depth Top [m]:	10.00
Hole No.:	MPBH714	Depth Base [m]:	10.50
Sample Reference:	8	Sample Type:	B
Sample Description:	Brown sandy very clayey 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	82
300	100	0.0483	79
150	100	0.0344	77
125	100	0.0245	74
90	100	0.0176	68
75	100	0.0129	65
63	100	0.0016	34
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	99	Particle density	(assumed)
2	99	2.65	Mg/m3
1.18	98		
0.6	98		
0.425	97		
0.3	94		
0.212	91		
0.15	88		
0.063	82		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	16
Silt	46
Clay	37

Grading Analysis		
D100	mm	10
D60	mm	0.0091
D30	mm	
D10	mm	
Uniformity Coefficient		> 5.6
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: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 100.21

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
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Northampton NN4 7EB

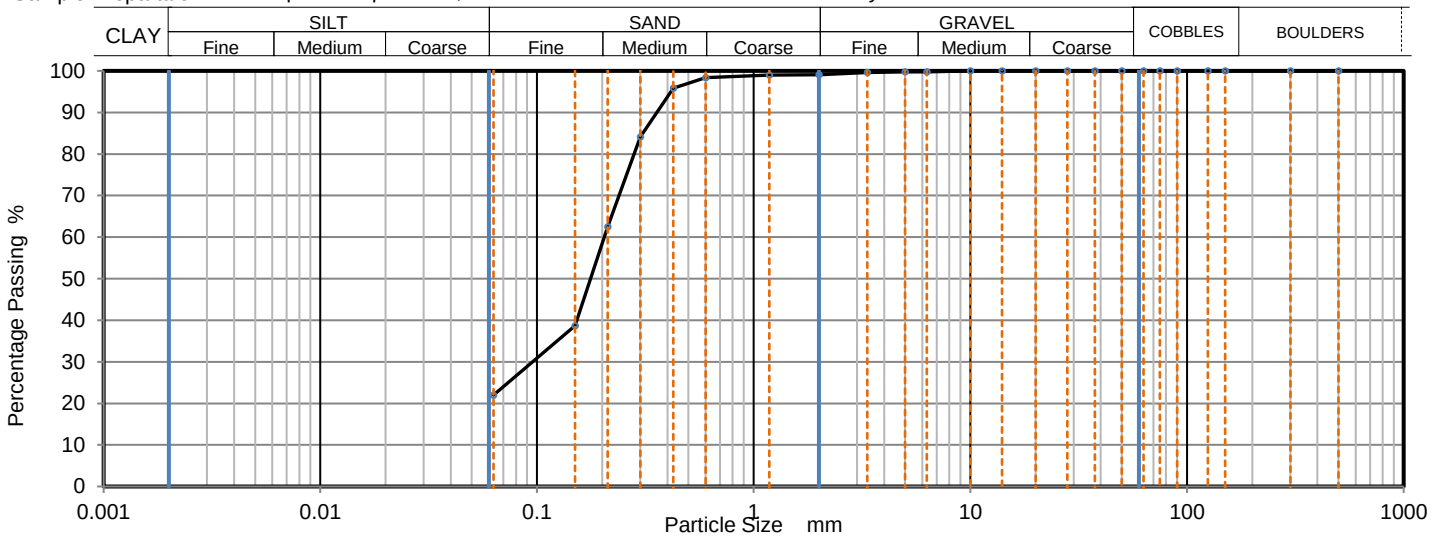
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Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128616	Depth Top [m]:	15.00
Hole No.:	MPBH715	Depth Base [m]:	16.50
Sample Reference:	11	Sample Type:	B
Sample Description:	Reddish brown clayey SAND		
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		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	98		
0.425	96		
0.3	84		
0.212	63		
0.15	39		
0.063	23		

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	77
Fines <0.063mm	22

Grading Analysis		
D100	mm	10
D60	mm	0.204
D30	mm	0.0944
D10	mm	
Uniformity Coefficient		> 3.2
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: Preliminary report 2

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Technical Reviewer
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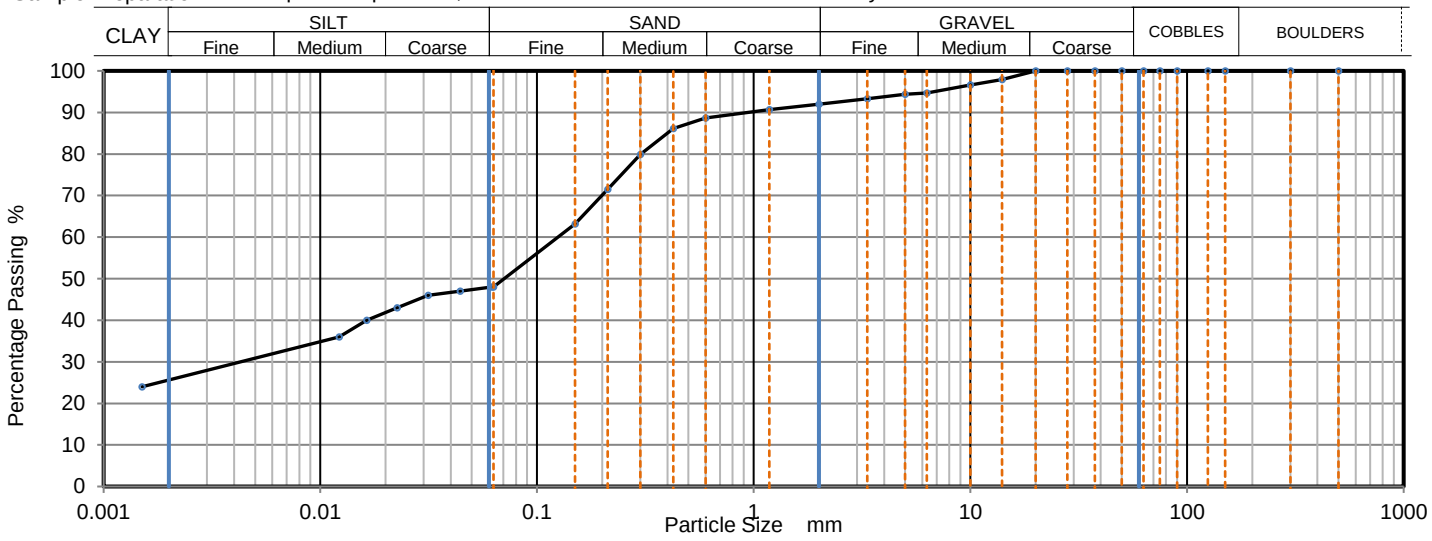
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Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128617	Depth Top [m]:	8.00
Hole No.:	MPBH703	Depth Base [m]:	8.50
Sample Reference:	9	Sample Type:	B
Sample Description:	Brown slightly gravelly very sandy CLAY		
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	0.0619	48
300	100	0.0441	47
150	100	0.0315	46
125	100	0.0226	43
90	100	0.0164	40
75	100	0.0122	36
63	100	0.0015	24
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	97		
6.3	95		
5	94		
3.35	93	Particle density	(assumed)
2	92	2.65	Mg/m3
1.18	91		
0.6	89		
0.425	86		
0.3	80		
0.212	72		
0.15	63		
0.063	48		

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	44
Silt	22
Clay	26

Grading Analysis		
D100	mm	20
D60	mm	0.124
D30	mm	0.00415
D10	mm	
Uniformity Coefficient		> 83
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: Preliminary report 2

Signed: Katarzyna Koziel

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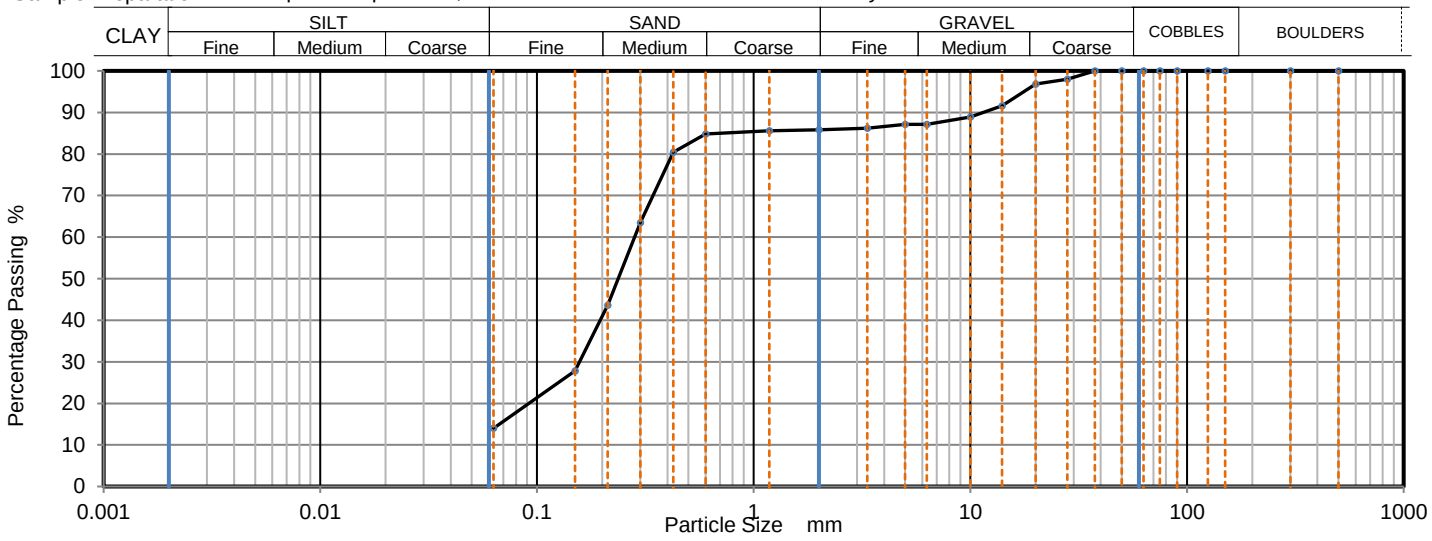
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128618	Depth Top [m]:	16.00
Hole No.:	MPBH707	Depth Base [m]:	16.75
Sample Reference:	20	Sample Type:	B
Sample Description:	Reddish brown gravelly clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 108.7 °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	100		
50	100		
37.5	100		
28	98		
20	97		
14	92		
10	89		
6.3	87		
5	87		
3.35	86		
2	86		
1.18	86		
0.6	85		
0.425	80		
0.3	64		
0.212	44		
0.15	28		
0.063	15		

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	71
Fines <0.063mm	15

Grading Analysis		
D100	mm	37.5
D60	mm	0.282
D30	mm	0.157
D10	mm	
Uniformity Coefficient		> 4.5
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: Preliminary report 2

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for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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Brackmills Industrial Estate
Northampton NN4 7EB

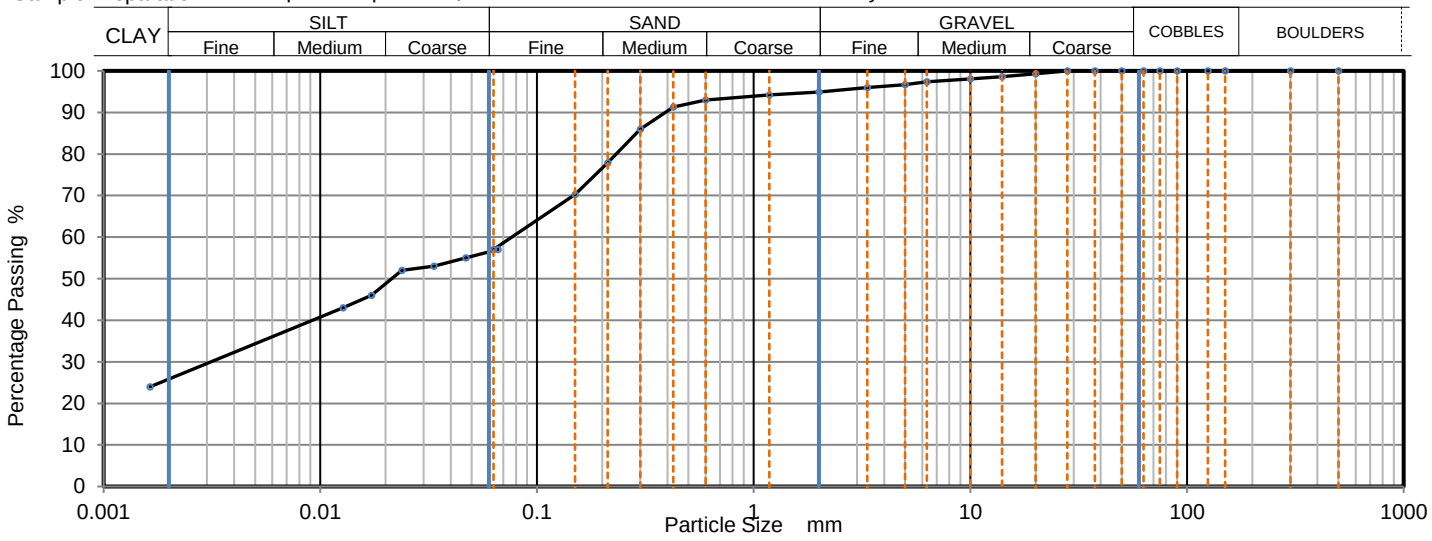
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128619	Depth Top [m]:	12.00
Hole No.:	MPBH709	Depth Base [m]:	12.45
Sample Reference:	19	Sample Type:	B
Sample Description:	Brown slightly gravelly very sandy CLAY		
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	0.0659	57
300	100	0.0469	55
150	100	0.0334	53
125	100	0.0238	52
90	100	0.0172	46
75	100	0.0127	43
63	100	0.0016	24
50	100		
37.5	100		
28	100		
20	99		
14	99		
10	98		
6.3	97		
5	97		
3.35	96	Particle density	(assumed)
2	95	2.65	Mg/m3
1.18	94		
0.6	93		
0.425	91		
0.3	86		
0.212	78		
0.15	70		
0.063	57		

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	38
Silt	31
Clay	26

Grading Analysis		
D100	mm	28
D60	mm	0.0777
D30	mm	0.00312
D10	mm	
Uniformity Coefficient		> 47
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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

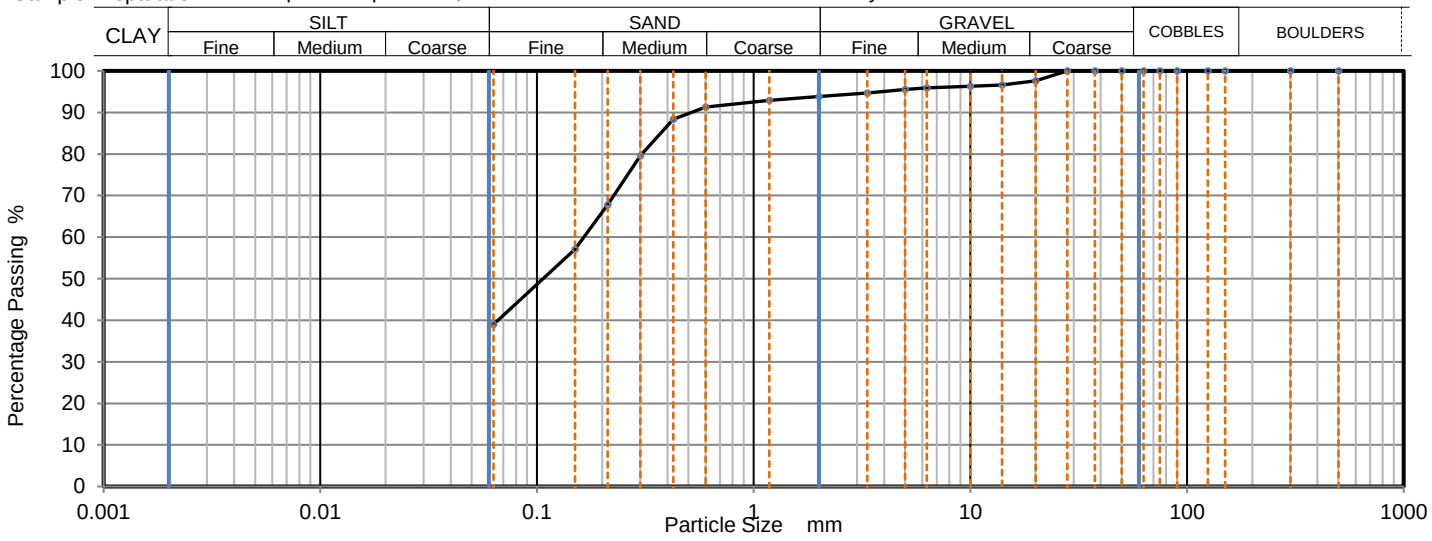
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128620	Depth Top [m]:	9.50
Hole No.:	MPBH707	Depth Base [m]:	10.00
Sample Reference:	16	Sample Type:	B
Sample Description:	Brown slightly gravelly very clayey SAND		
Sample Preparation:	Sample was quartered, oven dried at 106.5 °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	100		
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	96		
6.3	96		
5	96		
3.35	95		
2	94		
1.18	93		
0.6	91		
0.425	88		
0.3	80		
0.212	68		
0.15	57		
0.063	39		

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	55
Fines <0.063mm	39

Grading Analysis		
D100	mm	28
D60	mm	0.165
D30	mm	
D10	mm	
Uniformity Coefficient		> 2.6
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: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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

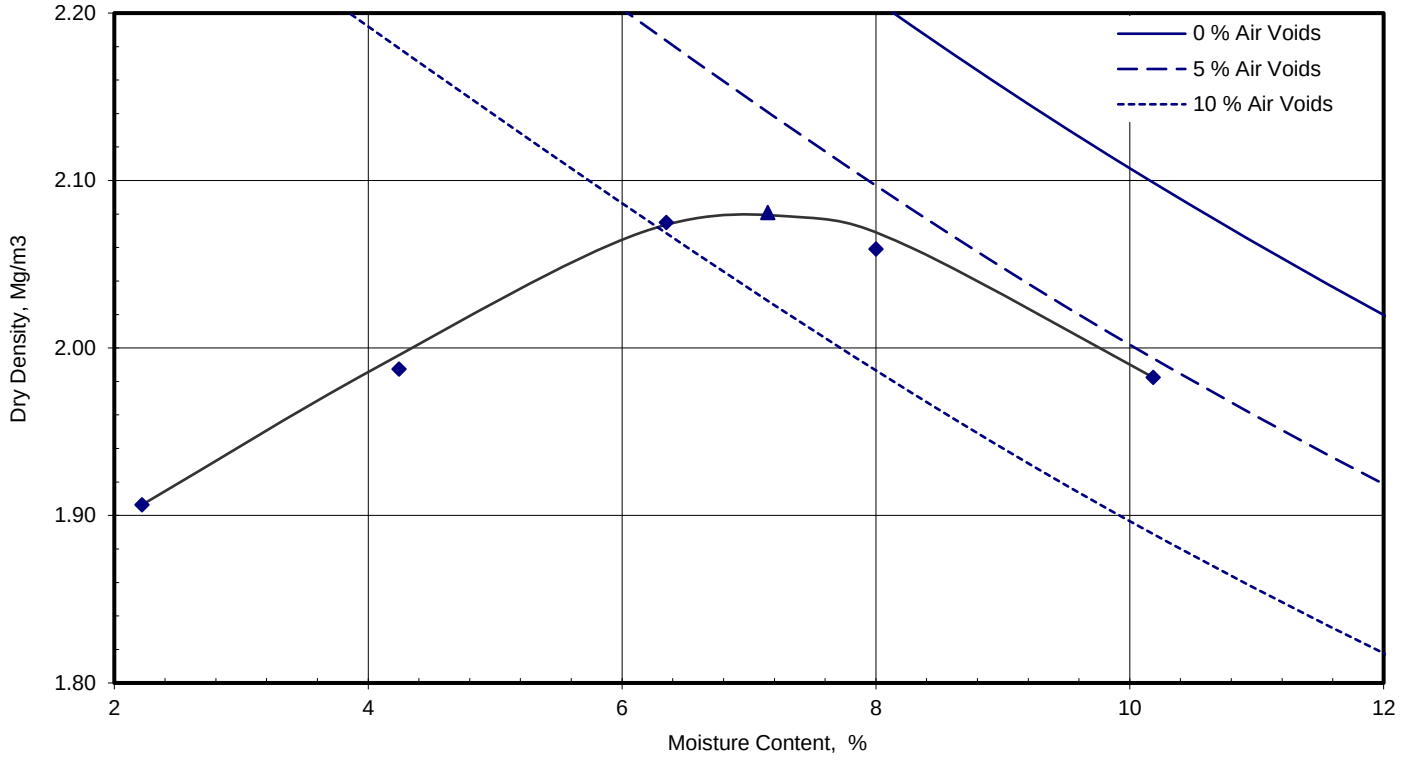
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128604	Depth Top [m]:	0.45
Hole No.:	TP711	Depth Base [m]:	0.60
Sample Reference:	1	Sample Type:	B
Sample Description:	Dark grey 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	%	2.2	4.2	6.3	8.0	10
Dry Density	Mg/m³	1.91	1.99	2.07	2.06	1.98

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	21
Material Retained on 20.0 mm Sieve	%	30
Particle Density - Measured using gas jar	Mg/m³	2.67
As received Moisture Content	%	6.3
Maximum Dry Density	Mg/m³	**2.08**

Optimum Moisture Content	%	**7.1**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request
Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

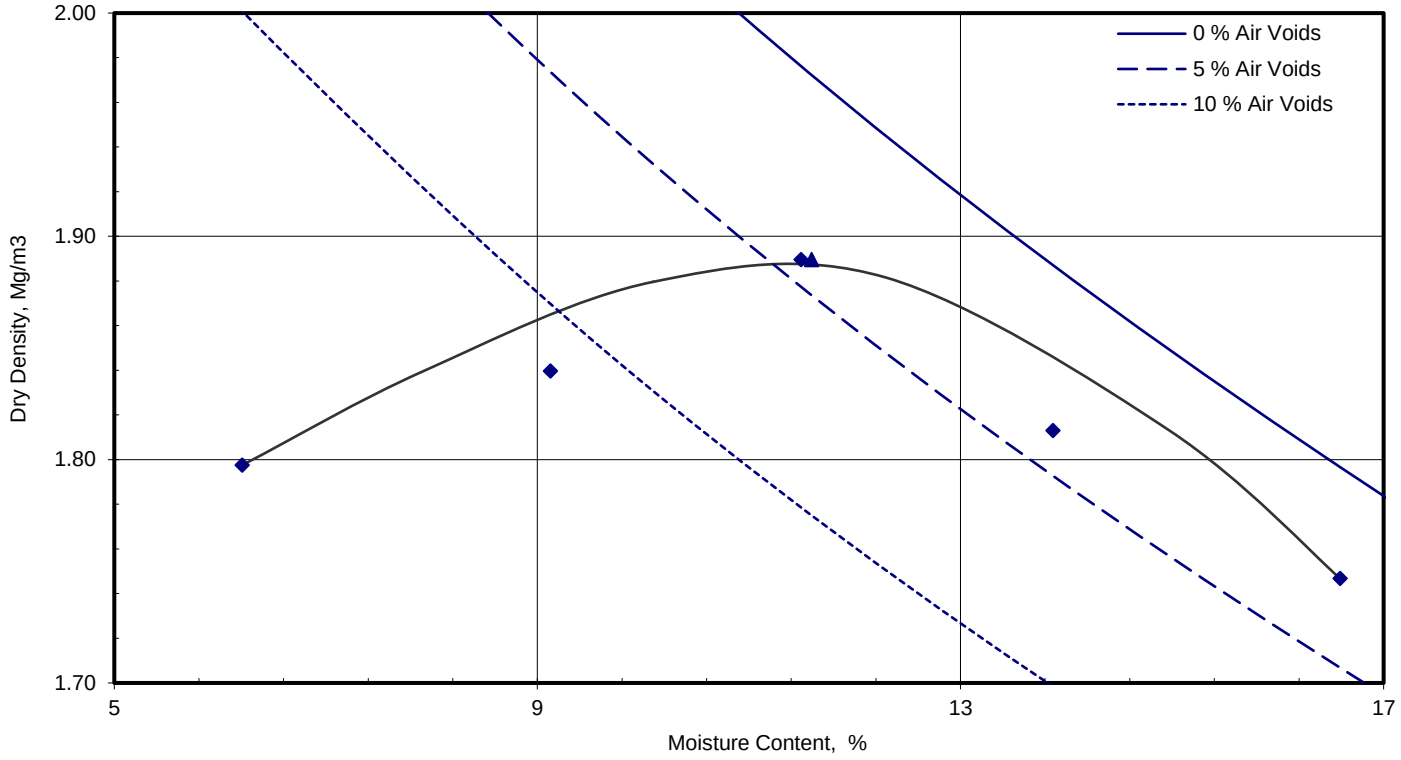
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	14/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128605	Depth Top [m]:	0.30
Hole No.:	TP716	Depth Base [m]:	0.60
Sample Reference:	2	Sample Type:	B
Sample Description:	Dark brown clayey sandy GRAVEL		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	6.2	9.1	11	14	17
Dry Density	Mg/m³	1.80	1.84	1.89	1.81	1.75

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	9
Material Retained on 20.0 mm Sieve	%	36
Particle Density - Measured using gas jar	Mg/m³	2.56
As received Moisture Content	%	12
Maximum Dry Density	Mg/m³	**1.89**

Optimum Moisture Content	%	**12**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Zone X - test carried out as per client request
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

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

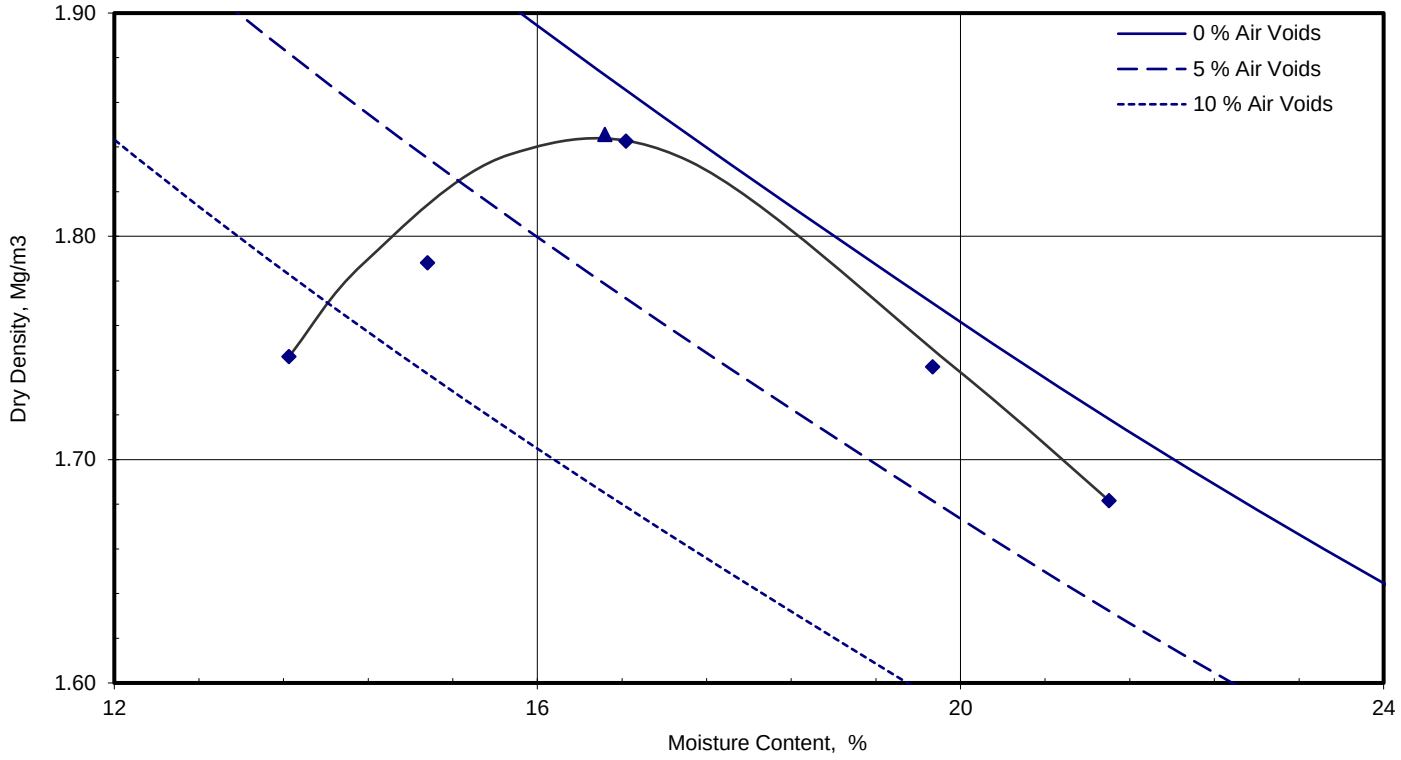
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128607	Depth Top [m]:	1.20
Hole No.:	TP715	Depth Base [m]:	1.40
Sample Reference:	6	Sample Type:	B
Sample Description:	Brown 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	%	14	15	17	20	21
Dry Density	Mg/m³	1.75	1.79	1.84	1.74	1.68

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	0
Material Retained on 20.0 mm Sieve	%	0
Particle Density - Measured using gas jar	Mg/m³	2.72
As received Moisture Content	%	20
Maximum Dry Density	Mg/m³	**1.85**

Optimum Moisture Content	%	**17**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.4 using 2.5kg [light] Rammer

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

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

UKAS TESTING 4041

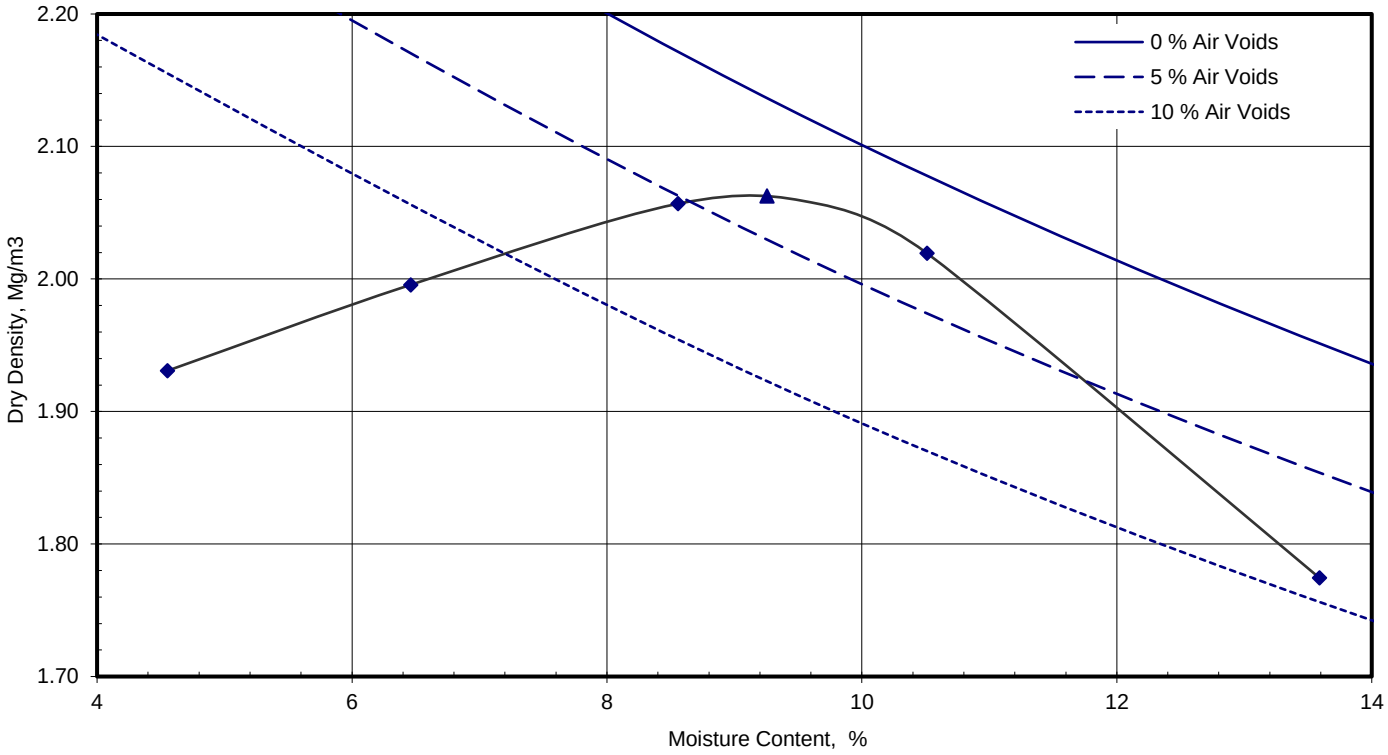
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128603	Depth Top [m]:	0.20
Hole No.:	TP709	Depth Base [m]:	0.50
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL with cobbles		
Sample Preparation:	Sample was quartered and broken down by hand. Material used was natural.		



Compaction Point No.		1	2	3	4	5
Moisture Content	%	4.6	6.5	8.6	11	14
Dry Density	Mg/m³	1.93	2.00	2.06	2.02	1.77

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	15
Material Retained on 20.0 mm Sieve	%	35
Particle Density - Measured using gas jar	Mg/m³	2.66
As received Moisture Content	%	9.0
Maximum Dry Density	Mg/m³	**2.06**

Optimum Moisture Content	%	**9.3**

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
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 110.22

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

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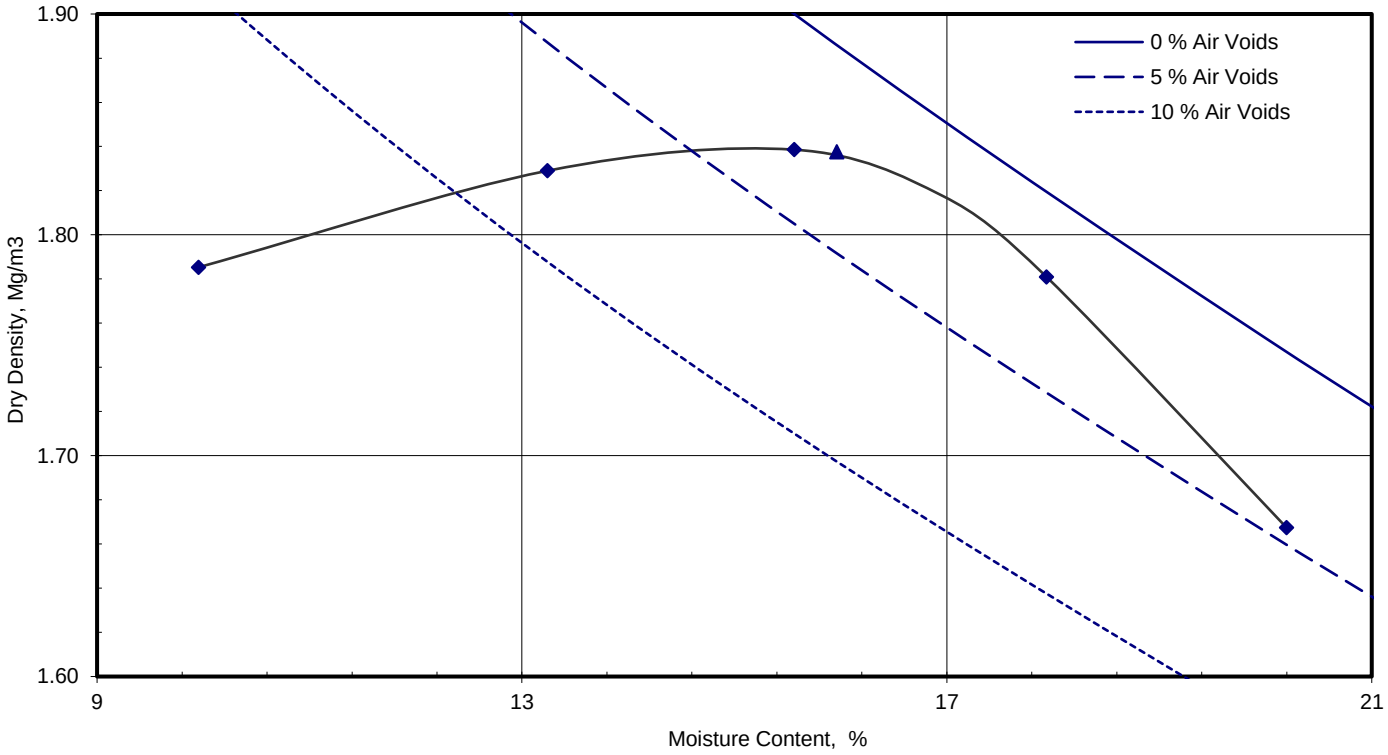
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128613	Depth Top [m]:	3.00
Hole No.:	MPBH705	Depth Base [m]:	4.00
Sample Reference:	5	Sample Type:	B
Sample Description:	Brown gravelly very sandy very clayey 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	%	10.0	13	16	18	20
Dry Density	Mg/m³	1.79	1.83	1.84	1.78	1.67

Mould Type		CBR
Samples Used		Single sample tested
Material Retained on 37.5 mm Sieve	%	7
Material Retained on 20.0 mm Sieve	%	11
Particle Density - Measured using gas jar	Mg/m³	2.70
As received Moisture Content	%	17
Maximum Dry Density	Mg/m³	**1.84**

Optimum Moisture Content	%	**16**

Note: Tested in Accordance with BS 1377-4: 1990: Clause 3.6 using 4.5kg [heavy] Rammer

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 110.22

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

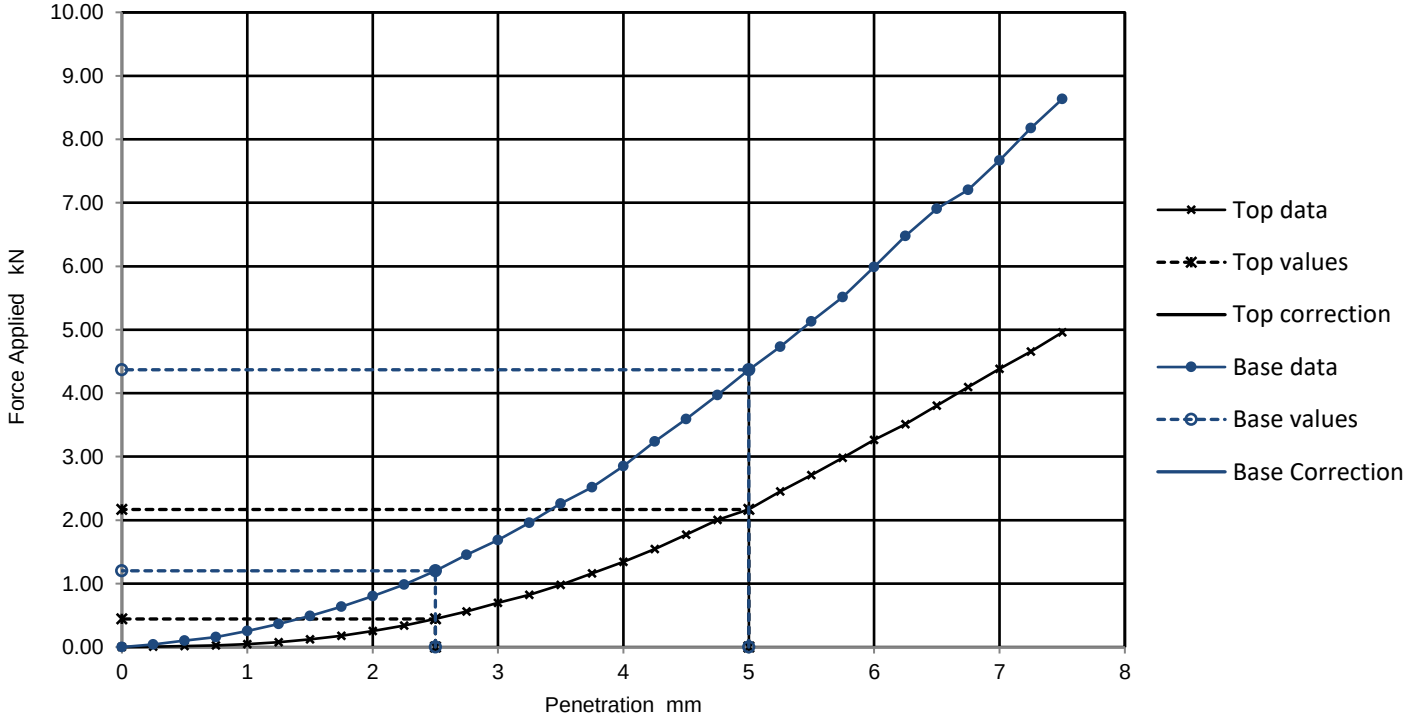
Laboratory Reference:	2128595	Depth Top [m]:	0.30
Hole No.:	WS704	Depth Base [m]:	0.40
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown gravelly sandy CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	38 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.10	Mg/m3	Surcharge applied	8 kg
	Dry density	1.79	Mg/m3		11.7 kPa
	Moisture content	18	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	3.4	11.0	11.0		18
BASE	No	9.1	22.0	22.0		18

Remarks:	Test carried out with > 25 % retained on 20mm as per clause 7.2.1.2	Test/ Specimen specific remarks:	Preliminary report 2

Signed: Katarzyna Koziel

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

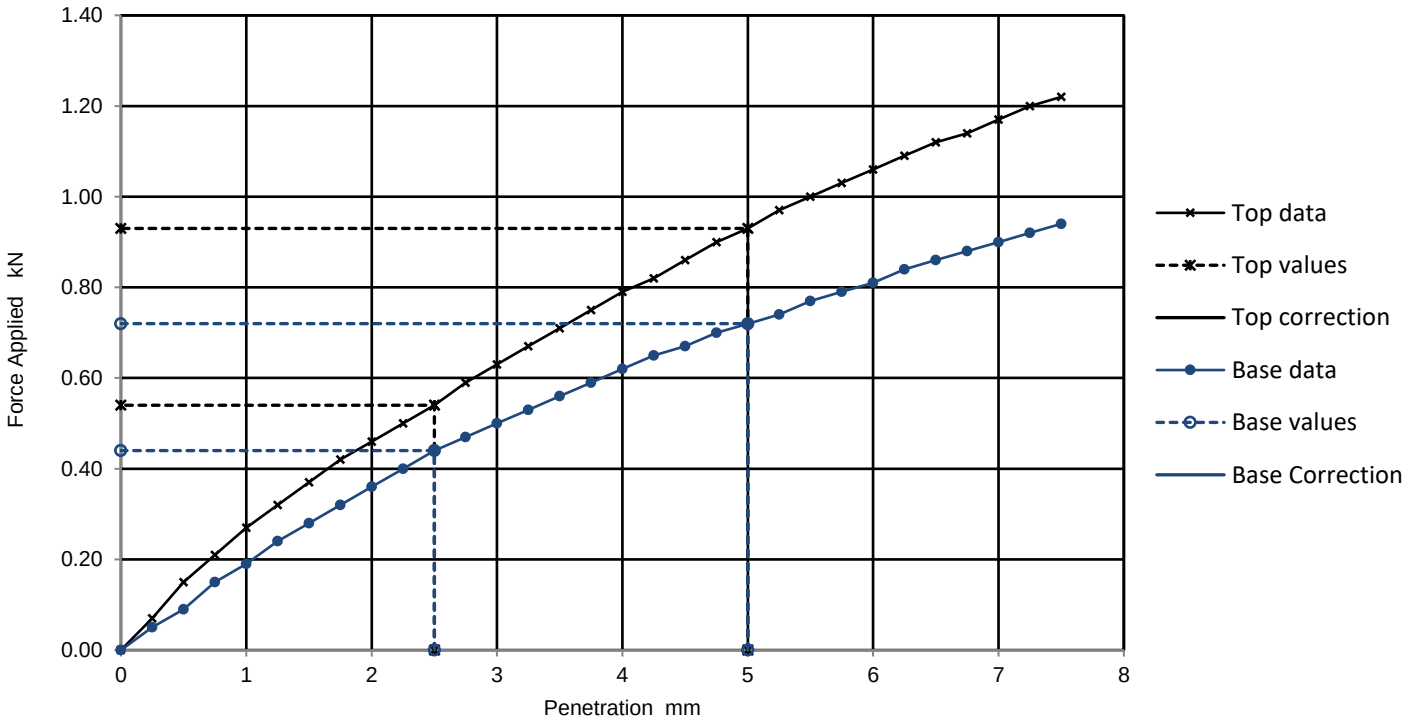
Laboratory Reference:	2128596	Depth Top [m]:	2.50
Hole No.:	WS704	Depth Base [m]:	3.00
Sample Reference:	9	Sample Type:	B
Sample Description:	Greyish brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	2 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.17	Mg/m3	Surcharge applied	8 kg
	Dry density	1.86	Mg/m3		11.7 kPa
	Moisture content	16	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	4.1	4.7	4.7		16
BASE	No	3.3	3.6	3.6		16

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	13/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

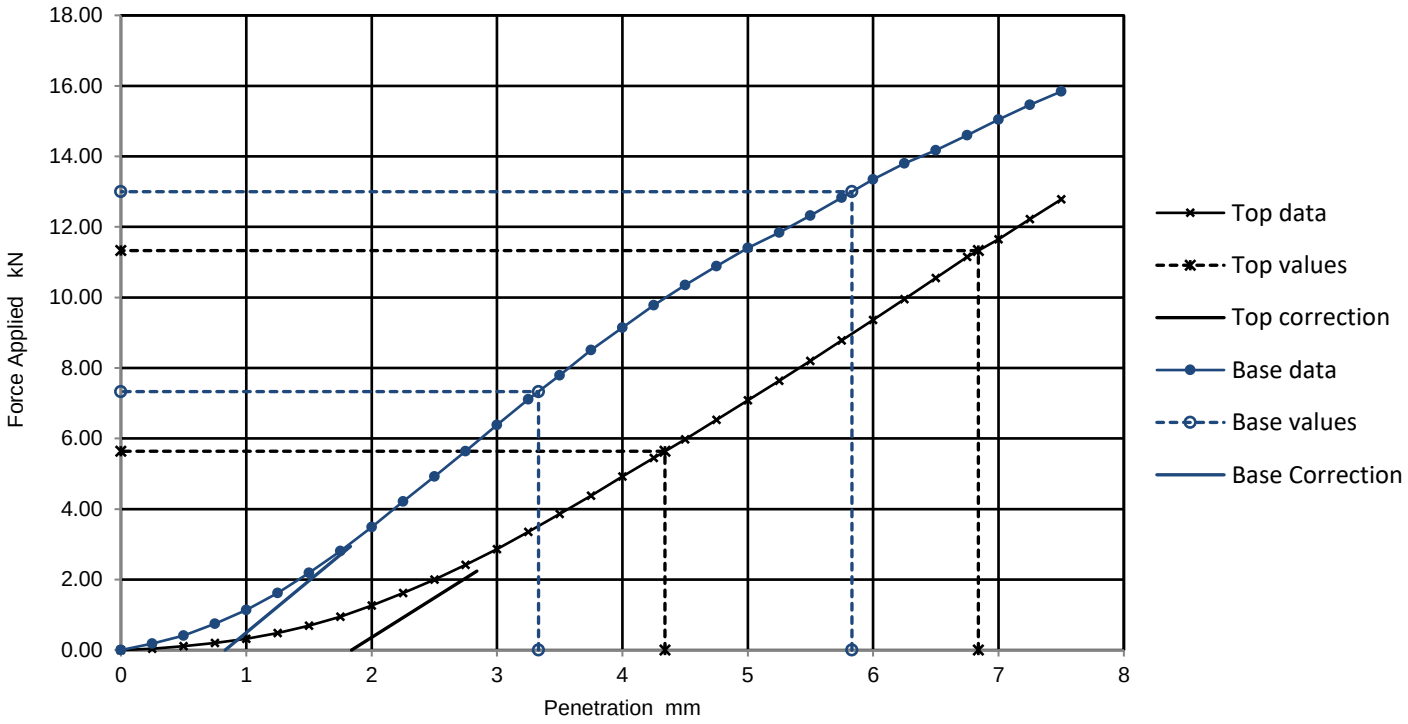
Laboratory Reference:	2128597	Depth Top [m]:	0.20
Hole No.:	TP709	Depth Base [m]:	0.50
Sample Reference:	1	Sample Type:	B
Sample Description:	Brown clayey sandy GRAVEL		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	7 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.20	Mg/m3	Surcharge applied	8 kg
	Dry density	2.01	Mg/m3		4.9 kPa
	Moisture content	9.6	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	43.0	57.0	57.0	61.0	9.6
BASE	Yes	56.0	65.0	65.0		8.5

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

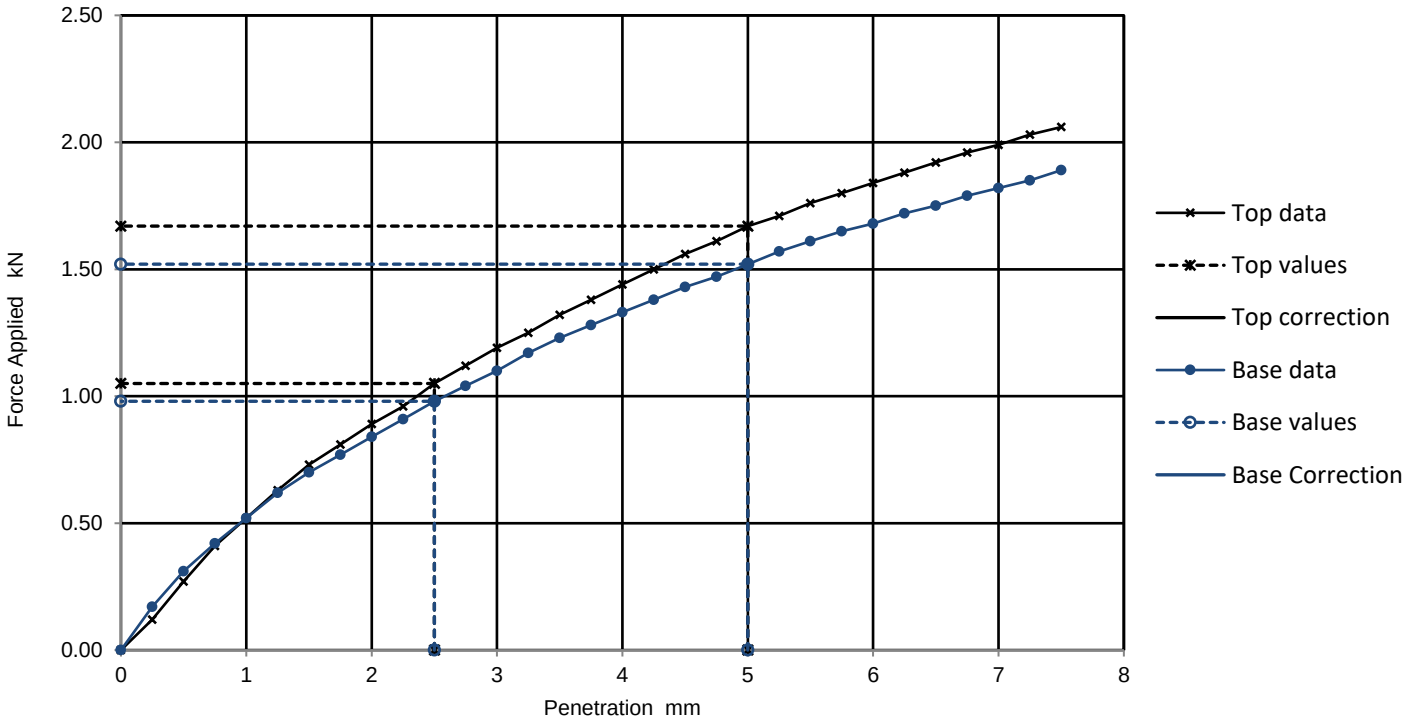
Laboratory Reference:	2128598	Depth Top [m]:	0.70
Hole No.:	WS701	Depth Base [m]:	1.20
Sample Reference:	3	Sample Type:	B
Sample Description:	Brown slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded	Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer	Period of soaking	days
		Time to surface	days
		Amount of swell recorded	mm
Material retained on 20mm sieve removed	0 %	Dry density after soaking	Mg/m3

Initial Specimen details	Bulk density	2.07	Mg/m3	Surcharge applied	8 kg
	Dry density	1.76	Mg/m3		4.9 kPa
	Moisture content	18	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	8.0	8.4	8.4	8.0	18
BASE	No	7.4	7.6	7.6		18

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

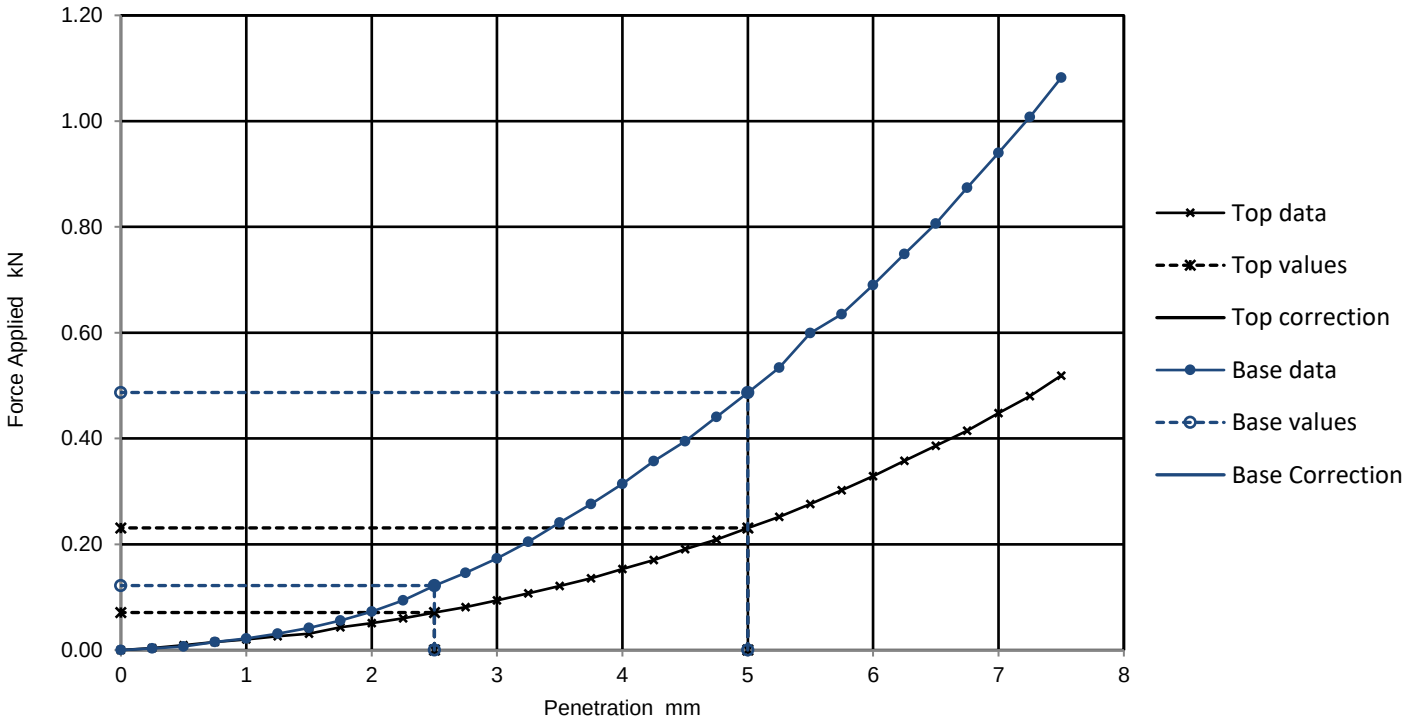
Test Results:

Laboratory Reference:	2128599	Depth Top [m]:	0.50
Hole No.:	MPBH713	Depth Base [m]:	1.20
Sample Reference:	2	Sample Type:	B
Sample Description:	Dark grey slightly gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		13	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	2.02	Mg/m3	Surcharge applied	8 kg
	Dry density	1.69	Mg/m3		4.9 kPa
	Moisture content	20	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.5	1.2	1.2		20
BASE	No	0.9	2.4	2.4		19

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed:

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Technical Reviewer
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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

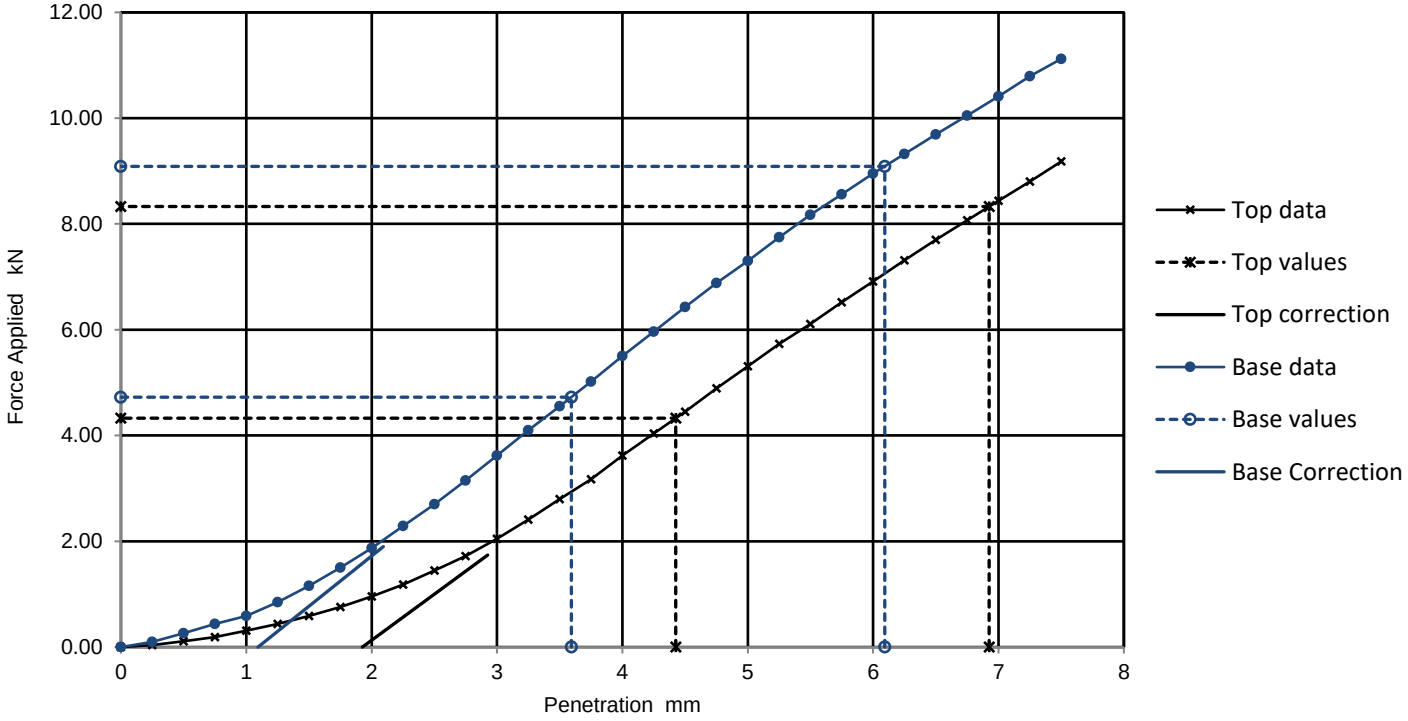
Test Results:

Laboratory Reference:	2128600	Depth Top [m]:	1.20
Hole No.:	MPBH715	Depth Base [m]:	1.70
Sample Reference:	3	Sample Type:	B
Sample Description:	Dark grey gravelly CLAY		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		39	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	2.00	Mg/m3	Surcharge applied	8 kg
	Dry density	1.76	Mg/m3		4.9 kPa
	Moisture content	14	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	Yes	33.0	42.0	42.0	44.0	13
BASE	Yes	36.0	45.0	45.0		13

Remarks:	Test carried out with > 25 % retained on 20mm as per clause 7.2.1.2	Test/ Specimen specific remarks:	Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

TEST CERTIFICATE

DETERMINATION OF THE CALIFORNIA BEARING RATIO (CBR)

Tested in Accordance with: BS 1377-4: 1990: Clause 7

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

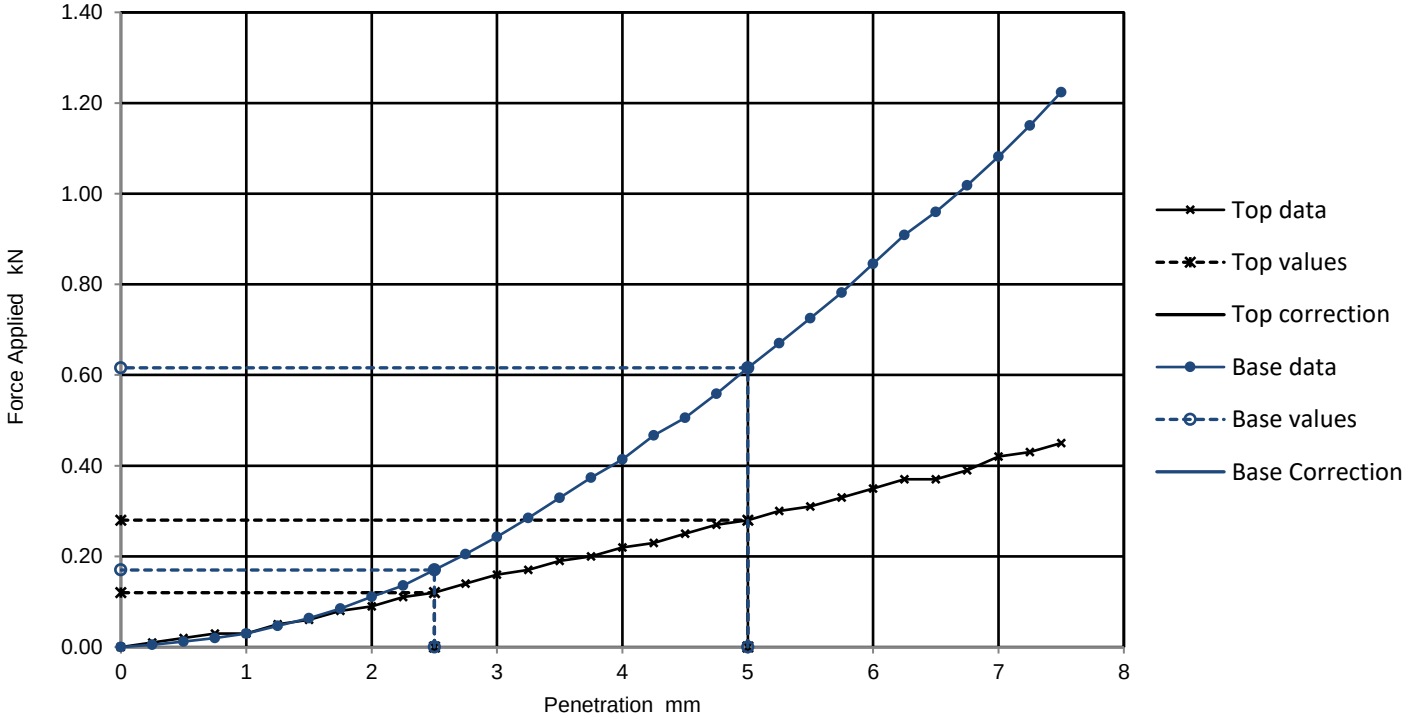
Test Results:

Laboratory Reference:	2128601	Depth Top [m]:	0.60
Hole No.:	WS702	Depth Base [m]:	1.00
Sample Reference:	2	Sample Type:	B
Sample Description:	Black gravelly clayey SAND		

Specimen Preparation:

Condition	Remoulded			Soaking details	Not soaked
Details	Recompacted with specified standard effort using 2.5kg rammer			Period of soaking	days
				Time to surface	days
				Amount of swell recorded	mm
Material retained on 20mm sieve removed		21	%	Dry density after soaking	Mg/m3
Initial Specimen details	Bulk density	1.87	Mg/m3	Surcharge applied	8 kg
	Dry density	1.53	Mg/m3		4.9 kPa
	Moisture content	22	%		

Force v Penetration Plots



Results

	Curve correction applied	CBR Values, %				Moisture Content %
		2.5mm	5mm	Highest	Average	
TOP	No	0.9	1.4	1.4		23
BASE	No	1.3	3.1	3.1		22

Remarks:

Test/ Specimen specific remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 108.16

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top	Depth Base	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)
			m	m								mm	mm	mm	mm	kN	mm	MPa	MPa
2128672	MPBH701	13	19.25	19.31	C	Orangish brown SANDSTONE	WC = 10.3%	1	A	U	Y	-	84.6	61.0	54.0	1.2	76.3	0.20	0.24
2128673	MPBH701	14	19.42	19.50	C	Orangish brown SANDSTONE	WC = 12.1%	1	D	U	Y	45.1	87.0	78.0	73.0	0.5	79.7	0.08	0.10
2128654	MPBH702	13	19.30	19.35	C	Orangish brown SANDSTONE	WC = 12.0%	1	A	U	Y	-	86.8	38.0	35.0	0.3	62.2	0.06	0.07
2128655	MPBH702	14	19.45	19.50	C	Orangish brown SANDSTONE	WC = 12.8%	1	A	U	Y	-	86.9	36.0	20.0	0.7	47.0	0.32	0.31
2128656	MPBH702	15	20.35	20.40	C	Orangish brown SANDSTONE	WC = 13.2%	1	A	U	Y	-	89.1	39.0	37.0	0.2	64.8	0.04	0.04
2128657	MPBH702	16	20.40	20.46	C	Orangish brown SANDSTONE	WC = 12.0%	1	A	U	Y	-	84.4	69.0	59.0	0.4	79.6	0.06	0.08
2128658	MPBH702	17	21.83	21.90	C	Orangish brown SANDSTONE	WC = 11.8%	1	A	U	Y	-	82.5	52.0	44.0	0.6	68.0	0.12	0.14
2128659	MPBH702	18	21.90	21.95	C	Orangish brown SANDSTONE	WC = 11.8%	1	A	U	Y	-	86.0	43.0	40.0	0.6	66.2	0.13	0.14
2128670	MPBH705	27	19.00	19.11	C	Orangish brown SANDSTONE	WC = 10.6%	1	D	U	Y	56.2	86.0	86.0	81.0	1.3	83.5	0.19	0.24
2128663	MPBH705	19	20.70	20.80	C	Orangish brown SANDSTONE	WC = 12.3%	1	D	U	Y	46.5	86.9	85.0	80.0	1.5	83.4	0.22	0.27

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top	Depth Base	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)
			m	m								mm	mm	mm	mm	kN	mm	MPa	MPa
2128664	MPBH705	20	21.12	21.26	C	Orangish brown SANDSTONE	WC = 12.6%	1	A	U	Y	-	86.8	50.0	43.0	1.9	68.9	0.39	0.45
2128671	MPBH705	28	21.30	21.40	C	Orangish brown SANDSTONE	WC = 13.1%	1	D	U	Y	53.9	87.8	85.0	84.0	0.2	85.9	0.03	0.03
2128665	MPBH705	21	21.60	21.70	C	Orangish brown SANDSTONE	WC = 14.3%	1	A	U	Y	-	86.8	56.0	51.0	1.8	75.1	0.31	0.37
2128667	MPBH705	23	22.33	22.46	C	Orangish brown SANDSTONE	WC = 11.1%	1	A	U	Y	-	86.5	60.0	51.0	1.5	74.9	0.27	0.32
2128668	MPBH705	24	22.68	22.80	C	Orangish brown SANDSTONE	WC = 13.8%	1	A	U	Y	-	86.6	43.0	36.0	1.4	63.0	0.35	0.39
2128621	MPBH706	15	17.10	17.20	C	Orangish brown SANDSTONE	WC = 9.6%	1	D	U	Y	56.7	82.8	82.0	79.0	0.8	80.9	0.12	0.15
2128625	MPBH706	22	19.30	19.43	C	Orangish brown SANDSTONE	WC = 9.3%	1	A	U	Y	-	84.7	58.0	51.0	1.3	74.2	0.24	0.28
2128629	MPBH707	18	16.75	16.83	C	Orangish brown SANDSTONE	WC = 9.8%	1	A	U	Y	-	85.4	28.0	23.0	0.8	50.0	0.30	0.30
2128635	MPBH709	30	16.28	16.38	C	Orangish brown SANDSTONE	WC = 11.5%	1	D	U	Y	58.1	85.8	82.0	80.0	0.6	82.8	0.08	0.10
2128637	MPBH709	23	16.38	16.50	C	Orangish brown SANDSTONE	WC = 11.6%	1	D	U	Y	62.6	85.4	87.0	84.0	0.3	84.7	0.03	0.04

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm	kN	mm	Is MPa	Is(50) MPa
2128638	MPBH709	24	16.74	16.83	C	Orangish brown SANDSTONE	WC = 12.2%	1	A	U	Y	-	83.5	69.0	65.0	0.5	83.1	0.07	0.09
2128639	MPBH709	25	17.45	17.53	C	Orangish brown SANDSTONE	WC = 11.3%	1	A	U	Y	-	85.7	34.0	30.0	0.8	57.2	0.23	0.24
2128640	MPBH709	26	17.80	17.88	C	Orangish brown SANDSTONE	WC = 11.8%	1	D	U	Y	52.2	85.1	85.0	82.0	0.4	83.5	0.05	0.06
2128636	MPBH709	31	18.03	18.10	C	Orangish brown SANDSTONE	WC = 11.7%	1	A	U	Y	-	87.4	45.0	40.0	0.8	66.7	0.17	0.19
2128641	MPBH709	27	18.40	18.50	C	Orangish brown SANDSTONE	WC = 11.0%	1	A	P	Y	-	86.2	62.0	57.0	1.2	79.1	0.19	0.24
2128631	MPBH711	18	17.30	17.47	C	Orangish brown SANDSTONE	WC = 11.2%	1	A	U	Y	-	85.2	53.0	48.0	0.8	72.2	0.14	0.17
2128632	MPBH711	19	17.75	17.87	C	Orangish brown SANDSTONE	WC = 10.5%	1	A	U	Y	-	86.4	70.0	62.0	1.3	82.6	0.18	0.23
2128630	MPBH711	22	19.37	19.44	C	Orangish brown SANDSTONE	WC = 12.0%	1	A	U	Y	-	85.8	63.0	58.0	1.2	79.6	0.19	0.23
2128650	MPBH713	28	19.22	19.36	C	Orangish brown SANDSTONE	WC = 11.7%	1	A	U	Y	-	86.5	78.0	48.0	1.7	72.7	0.32	0.38
2128652	MPBH713	30	20.17	20.30	C	Orangish brown SANDSTONE	WC = 15.2%	1	A	U	Y	-	82.4	57.0	48.0	0.8	71.0	0.15	0.17

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF POINT LOAD STRENGTH

Tested in Accordance with: ISRM: 2007, pages 125-132

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park,
Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks # (including water content if measured)	Specimen Reference	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index	
		Reference	Depth Top m	Depth Base m	Type				Type (D, A, I, B)	Direction (L, P or U)		Lne mm	W mm	Dps mm	Dps' mm	kN	mm	Is MPa	Is(50) MPa
2128653	MPBH713	31	20.65	20.75	C	Orangish brown SANDSTONE	WC = 13.1%	1	A	U	Y	-	86.5	58.0	50.0	1.2	74.2	0.21	0.25
2128643	MPBH715	25	16.87	16.90	C	Orangish brown SANDSTONE	WC = 10.5%	1	A	U	Y	-	85.1	25.0	21.0	0.8	47.7	0.33	0.32

Note: # non accredited; Test Type: D - Diametral, A - Axial, I - Irregular Lump, B - Block; Direction: L - parallel to planes of weakness, P - perpendicular to planes of weakness, U - unknown or random;
Dimensions: Dps - Distance between platens (platen separation), Dps' - at failure (see ISRM note 6), Lne - Length from platens to nearest free end W - Width of shortest dimension perpendicular to load, P;
Detailed legend for test and dimensions, based on ISRM, is shown above; Size factor, F = (De/50)0.45 for all tests

Comments: Preliminary report 2

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Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 134.13

SUMMARY REPORT

DETERMINATION OF UNIAXIAL COMPRESSIVE STRENGTH OF ROCK MATERIALS

Tested in Accordance with: ISRM, 2007, p153, part 1

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Specimen Dimensions (2)				Bulk density (2)	Water Content (1)	Uniaxial Compression (3)			
		Reference	Depth Top m	Depth Base m	Type			Diameter mm	Length mm	H/D	Orientation of sample	Mg/m3	%	Condition	Stress Rate Mpa/s	Mode of failure	UCS Mpa
2128660	MPBH705	16	19.11	19.27	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.9	121.5	1.4	Vertical	2.08	10.3	as received	0.0173	MS + AC	9.55
2128661	MPBH705	17	19.40	19.59	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.4	154.6	1.8	Vertical	2.11	11.2	as received	0.0170	S	9.54
2128662	MPBH705	18	19.80	20.10	C	Orangish brown SANDSTONE	Duration of test, fell below time specified in ISRM method, 2007, p153, part1.	86.5	247.8	2.9	Vertical	2.09	13.2	as received	0.0340	S	7.06
2128666	MPBH705	22	21.88	22.20	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.5	79.0	0.9	Vertical	2.12	12.8	as received	0.0170	S + AC	6.68
2128669	MPBH705	25	22.95	23.20	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.6	190.8	2.2	Vertical	2.12	14.7	as received	0.0170	S + AC	5.72
2128622	MPBH706	16	17.20	17.85	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	83.0	70.8	0.9	Vertical	2.07	9.7	as received	0.0185	MS + AC	13.1
2128623	MPBH706	17	18.20	18.45	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.0	145.1	1.7	Vertical	2.10	9.7	as received	0.0172	S + AC	9.56
2128624	MPBH706	18	18.68	18.86	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.4	147.3	1.7	Vertical	2.05	10.7	as received	0.0171	S	9.14
2128626	MPBH706	23	20.15	20.45	C	Orangish brown SANDSTONE	Duration of test, fell below time specified in ISRM method, 2007, p153, part1.	85.6	224.9	2.6	Vertical	2.10	9.0	as received	0.0347	MS	8.21
2128627	MPBH706	24	20.45	20.60	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.4	186.9	2.2	Vertical	2.09	9.9	as received	0.0175	S	8.14

Note: 1 - ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS, 2 - ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density, 3 - ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials, above notes apply unless annotated otherwise in the remarks. Compaction machine: VJ Tech AUTOCON - VJT 51-3011; Mode of failure legend: S - Single shear, MS - multiple shear, AC - Axial cleavage, F - Fragmented

Comments: * Duration of test exceeded time specified in ISRM method, 2007, p153, part1.
** Duration of test, fell below time specified in ISRM method, 2007, p153, part1. Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 223.14

SUMMARY REPORT

DETERMINATION OF UNIAXIAL COMPRESSIVE STRENGTH OF ROCK MATERIALS

Tested in Accordance with: ISRM, 2007, p153, part 1

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

4041

Client: Hydrock Consultants Ltd

Client Address: 4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY

Contact: Russell Sumner

Site Address: Gould Street

Client Reference: C-21353-C
Job Number: 22-31215
Date Sampled: 01/12/2021
Date Received: 21/12/2021
Date Tested: 12/01 - 13/01/2022
Sampled By: Client - R.S

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

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Specimen Dimensions (2)				Bulk density (2)	Water Content (1)	Uniaxial Compression (3)			
		Reference	Depth Top m	Depth Base m	Type			Diameter mm	Length mm	H/D	Orientation of sample	Mg/m3	%	Condition	Stress Rate Mpa/s	Mode of failure	UCS Mpa
2128628	MPBH706	25	21.00	21.21	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.*	85.2	180.1	2.1	Vertical	2.12	8.6	as received	0.0175	S	14.0
2128633	MPBH711	20	18.50	18.65	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.7	116.6	1.4	Vertical	2.08	10.9	as received	0.0174	S	10.5
2128634	MPBH711	21	18.96	19.11	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.1	125.7	1.5	Vertical	2.10	10.3	as received	0.0176	MS + AC	10.1
2128647	MPBH713	25	17.75	18.00	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	86.6	182.3	2.1	Vertical	2.05	9.9	as received	0.0170	MS + AC	8.00
2128648	MPBH713	26	18.47	18.63	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.**	85.9	111.1	1.3	Vertical	2.04	10.7	as received	0.0345	S + AC	6.66
2128649	MPBH713	27	18.70	18.96	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.**	86.4	204.8	2.4	Vertical	2.04	9.2	as received	0.0171	MS + AC	4.81
2128651	MPBH713	29	19.90	20.10	C	Orangish brown SANDSTONE	Sample is below recommended length to diameter ratio.	85.8	181.6	2.1	Vertical	2.02	13.3	as received	0.0173	S + AC	7.08

Note: 1 - ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS, 2 - ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density, 3 - ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials, above notes apply unless annotated otherwise in the remarks. Compaction machine: VJ Tech AUTOCON - VJT 51-3011; Mode of failure legend: S - Single shear, MS - multiple shear, AC - Axial cleavage, F - Fragmented

Comments: * Duration of test exceeded time specified in ISRM method, 2007, p153, part1.
** Duration of test, fell below time specified in ISRM method, 2007, p153, part1. Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 223.14

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

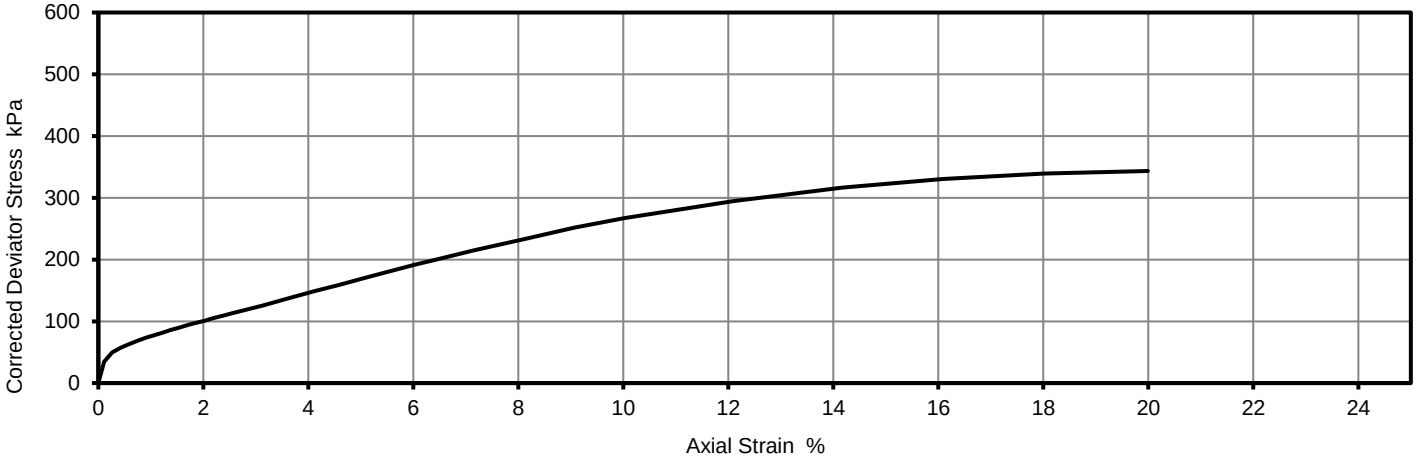
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

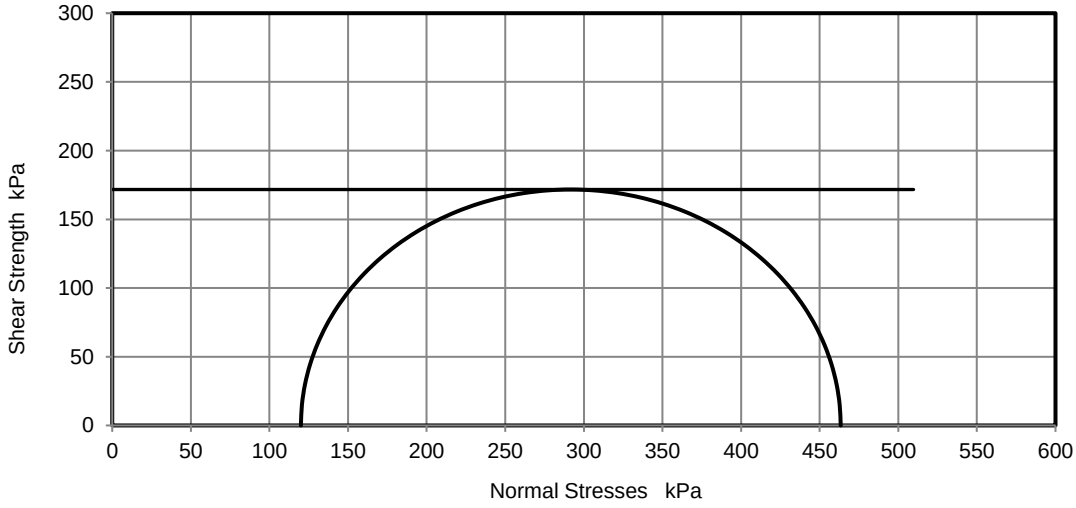
Laboratory Reference:	2128558	Depth Top [m]:	7.00
Hole No.:	MPBH703	Depth Base [m]:	7.45
Sample Reference:	8	Sample Type:	U
Sample Description:	Brown gravelly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.96	%/min
Length	204.55	mm	Cell Pressure	120	kPa
Diameter	103.74	mm	Axial Strain at failure	20.0	%
Bulk Density	2.13	Mg/m3	Deviator Stress, (σ1 - σ3)f	343	kPa
Moisture Content	14	%	Undrained Shear Strength, cu	172	kPa ½(σ1 - σ3)f
Dry Density	1.86	Mg/m3	Mode of Failure	Compound	
Membrane Correction	1.07	kPa	Membrane thickness	0.29	mm

Deviator Stress v Axial Strain

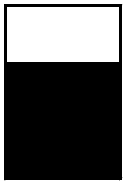


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

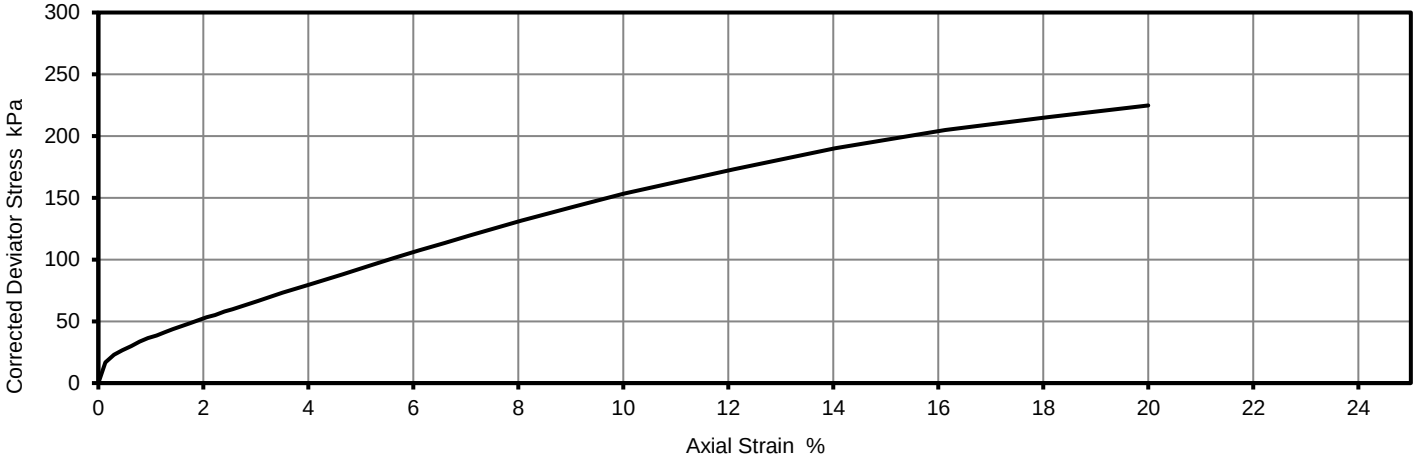
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

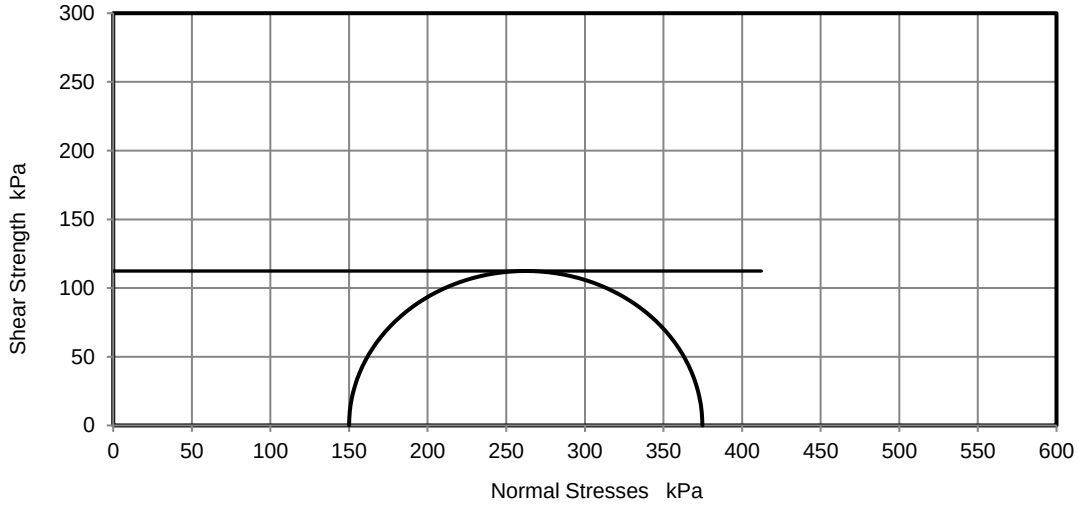
Laboratory Reference:	2128560	Depth Top [m]:	7.50
Hole No.:	MPBH709	Depth Base [m]:	7.95
Sample Reference:	11	Sample Type:	U
Sample Description:	Brown slightly gravelly CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.98	%/min
Length	202.42	mm	Cell Pressure	150	kPa
Diameter	102.18	mm	Axial Strain at failure	20.0	%
Bulk Density	2.14	Mg/m3	Deviator Stress, (σ1 - σ3)f	225	kPa
Moisture Content	19	%	Undrained Shear Strength, cu	112	kPa ½(σ1 - σ3)f
Dry Density	1.79	Mg/m3	Mode of Failure	Compound	
Membrane Correction	0.83	kPa	Membrane thickness	0.22	mm

Deviator Stress v Axial Strain

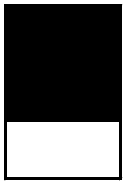


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

UKAS TESTING
4041

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

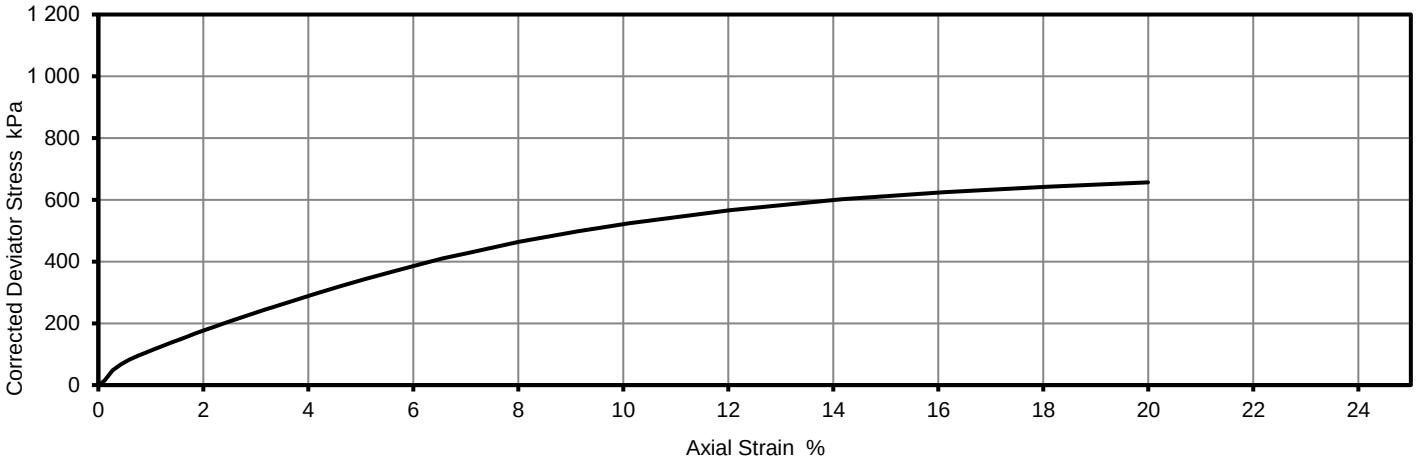
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

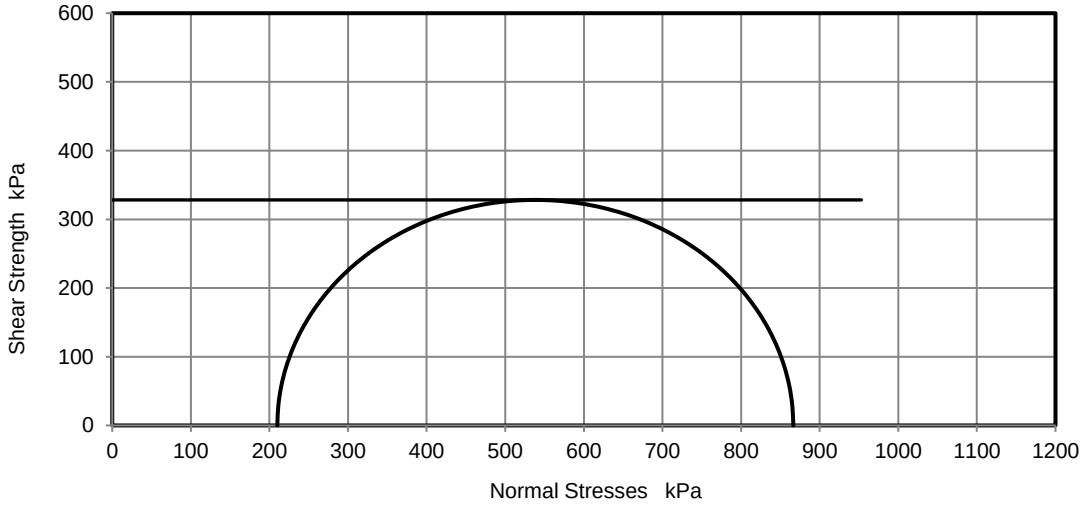
Laboratory Reference:	2128561	Depth Top [m]:	10.50
Hole No.:	MPBH709	Depth Base [m]:	10.95
Sample Reference:	16	Sample Type:	U
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.99	%/min
Length	201.27	mm	Cell Pressure	210	kPa
Diameter	101.68	mm	Axial Strain at failure	20.0	%
Bulk Density	2.31	Mg/m3	Deviator Stress, (σ1 - σ3)f	656	kPa
Moisture Content	11	%	Undrained Shear Strength, cu	328	kPa ½(σ1 - σ3)f
Dry Density	2.07	Mg/m3	Mode of Failure	Compound	
Membrane Correction	0.87	kPa	Membrane thickness	0.23	mm

Deviator Stress v Axial Strain

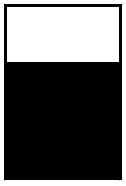


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 184.12

UKAS TESTING
4041

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

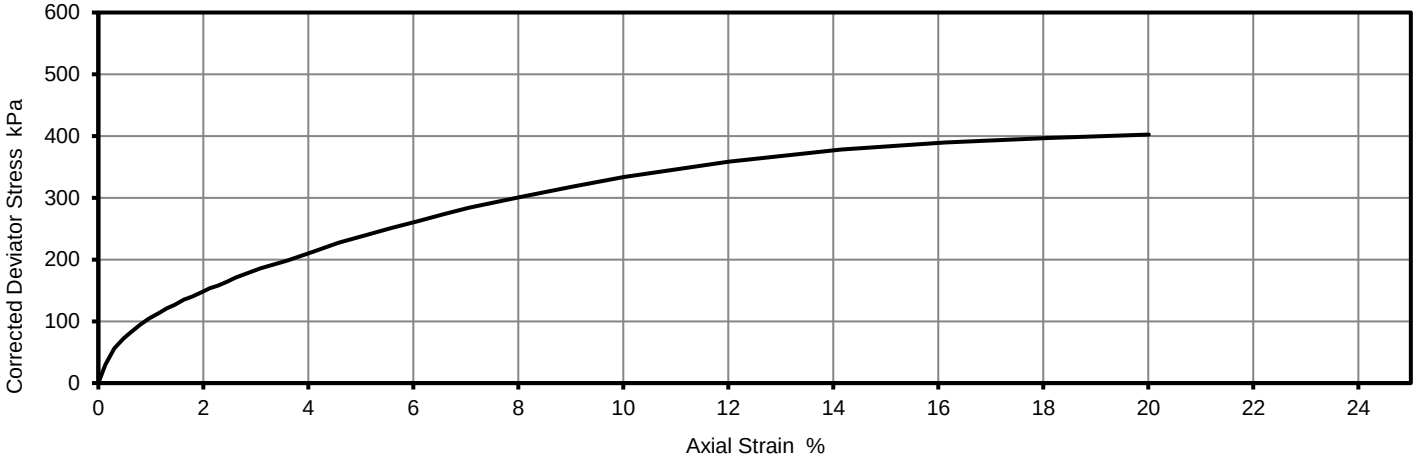
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

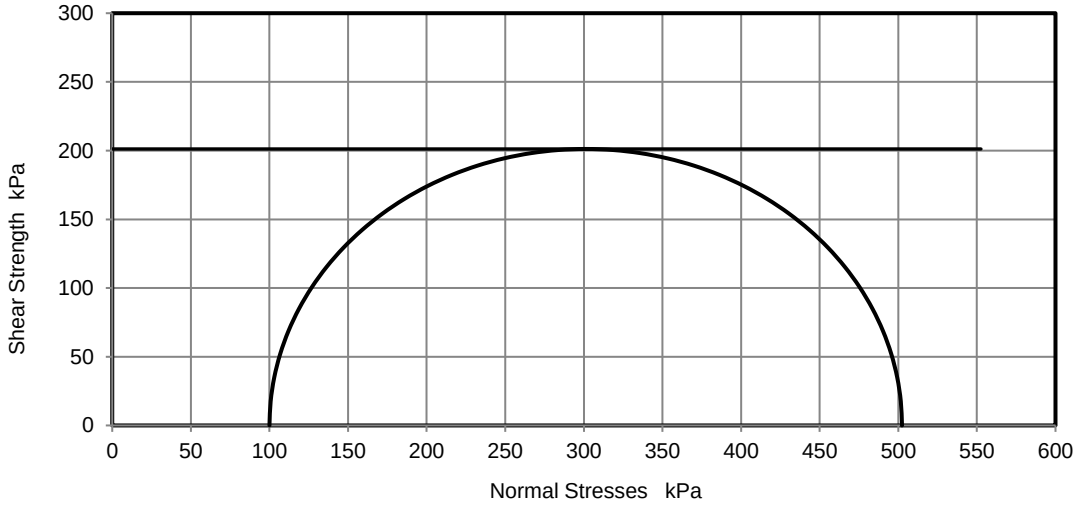
Laboratory Reference:	2128563	Depth Top [m]:	5.00
Hole No.:	MPBH715	Depth Base [m]:	5.45
Sample Reference:	12	Sample Type:	U
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	2.00	%/min
Length	140.44	mm	Cell Pressure	100	kPa
Diameter	69.52	mm	Axial Strain at failure	20.0	%
Bulk Density	2.17	Mg/m3	Deviator Stress, (σ1 - σ3)f	402	kPa
Moisture Content	17	%	Undrained Shear Strength, cu	201	kPa ½(σ1 - σ3)f
Dry Density	1.85	Mg/m3	Mode of Failure	Compound	
Membrane Correction	1.66	kPa	Membrane thickness	0.30	mm

Deviator Stress v Axial Strain

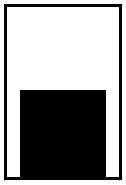


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

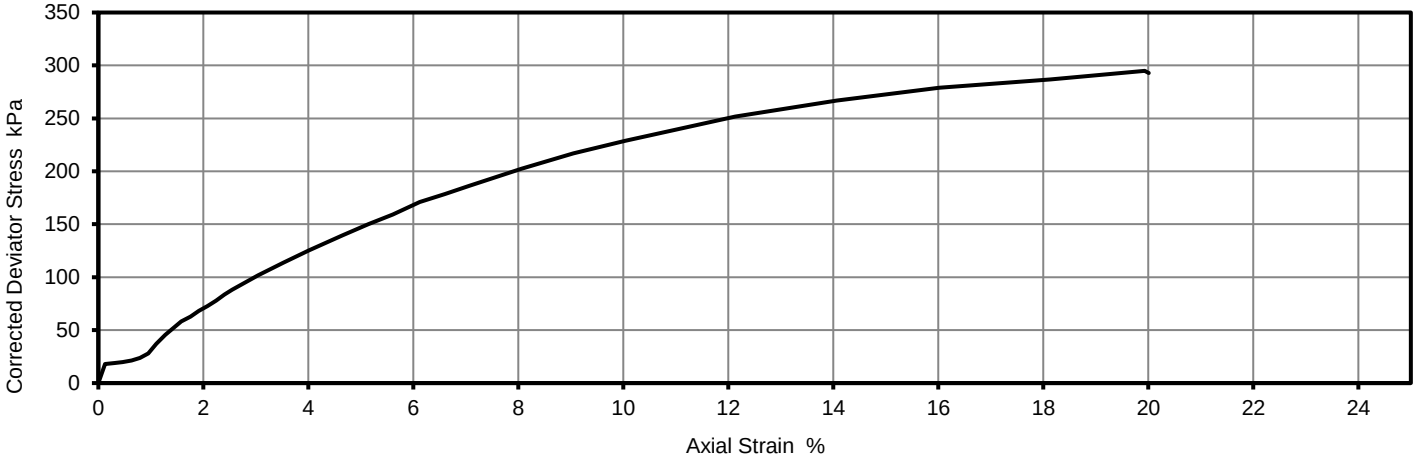
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

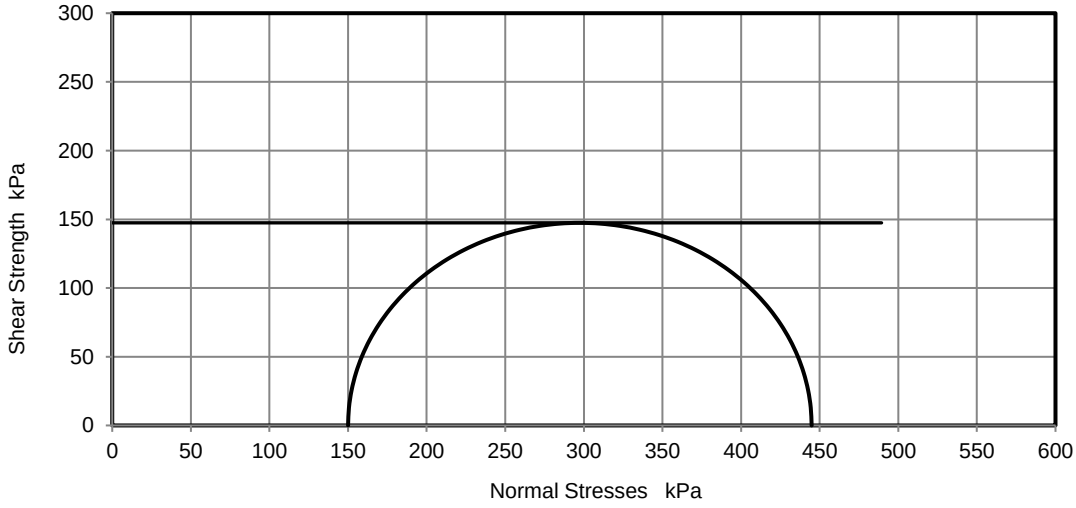
Laboratory Reference:	2128564	Depth Top [m]:	7.50
Hole No.:	MPBH715	Depth Base [m]:	7.95
Sample Reference:	16	Sample Type:	U
Sample Description:	Brown slightly gravelly very sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.97	%/min
Length	202.97	mm	Cell Pressure	150	kPa
Diameter	101.39	mm	Axial Strain at failure	19.9	%
Bulk Density	2.20	Mg/m3	Deviator Stress, (σ1 - σ3)f	295	kPa
Moisture Content	16	%	Undrained Shear Strength, cu	147	kPa ½(σ1 - σ3)f
Dry Density	1.90	Mg/m3	Mode of Failure	Compound	
Membrane Correction	1.06	kPa	Membrane thickness	0.28	mm

Deviator Stress v Axial Strain

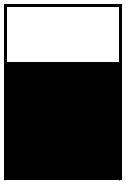


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

Tested in Accordance with: BS 1377-7: 1990: Clause 8

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

UKAS TESTING 4041

Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

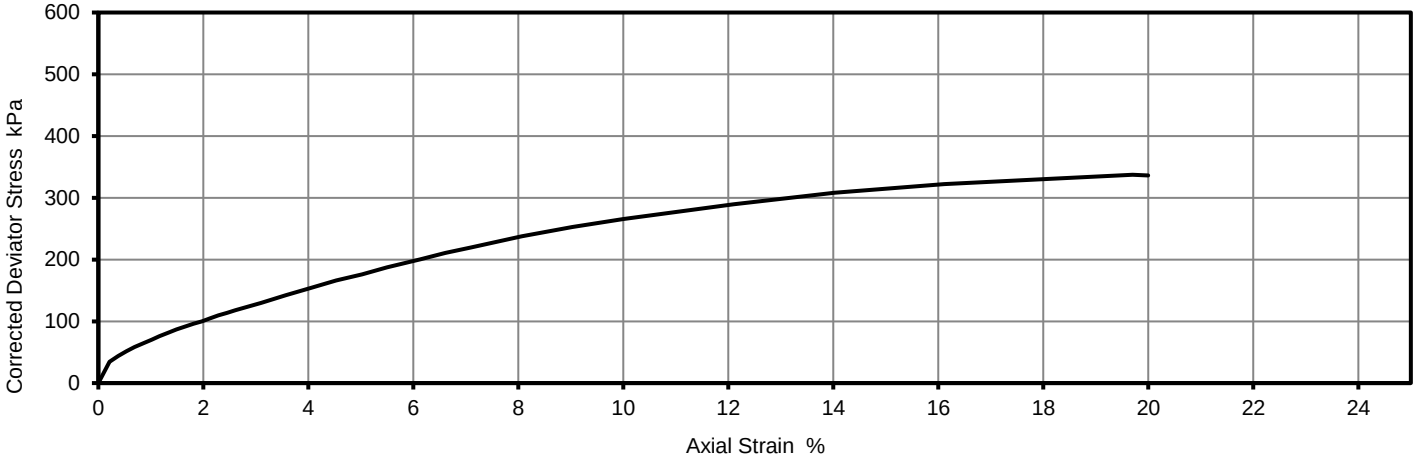
Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Test Results:

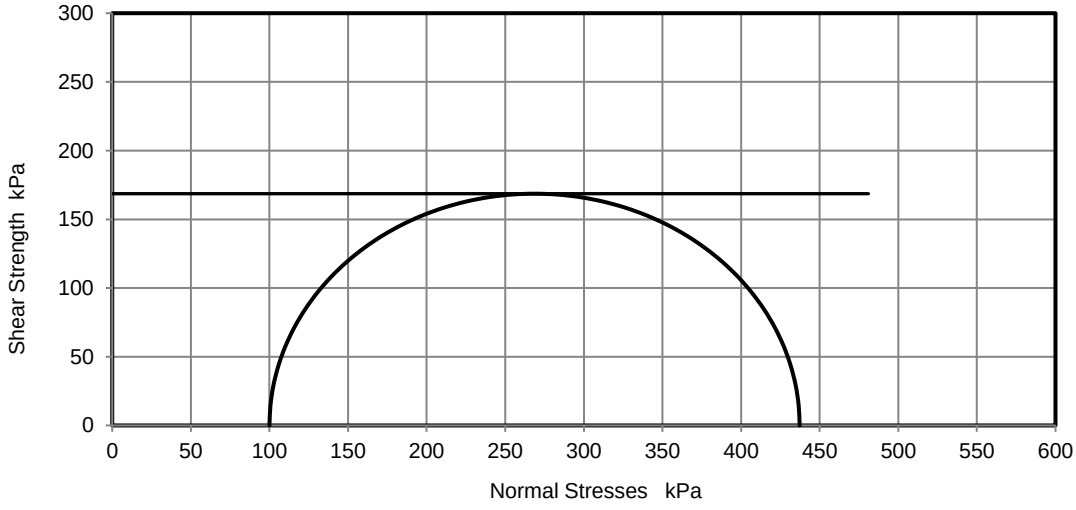
Laboratory Reference:	2128566	Depth Top [m]:	5.00
Hole No.:	MPBH713	Depth Base [m]:	5.45
Sample Reference:	12	Sample Type:	U
Sample Description:	Brown slightly gravelly slightly sandy CLAY		
Sample Preparation:	Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.		

Test Number	1		Rate of Strain	1.96	%/min
Length	204.14	mm	Cell Pressure	100	kPa
Diameter	102.98	mm	Axial Strain at failure	19.7	%
Bulk Density	2.15	Mg/m3	Deviator Stress, (σ1 - σ3)f	337	kPa
Moisture Content	18	%	Undrained Shear Strength, cu	169	kPa ½(σ1 - σ3)f
Dry Density	1.82	Mg/m3	Mode of Failure	Compound	
Membrane Correction	0.96	kPa	Membrane thickness	0.26	mm

Deviator Stress v Axial Strain

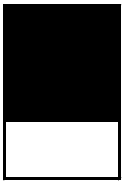


Mohr Circles





Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks: Preliminary report 2

Signed:

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 184.12

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

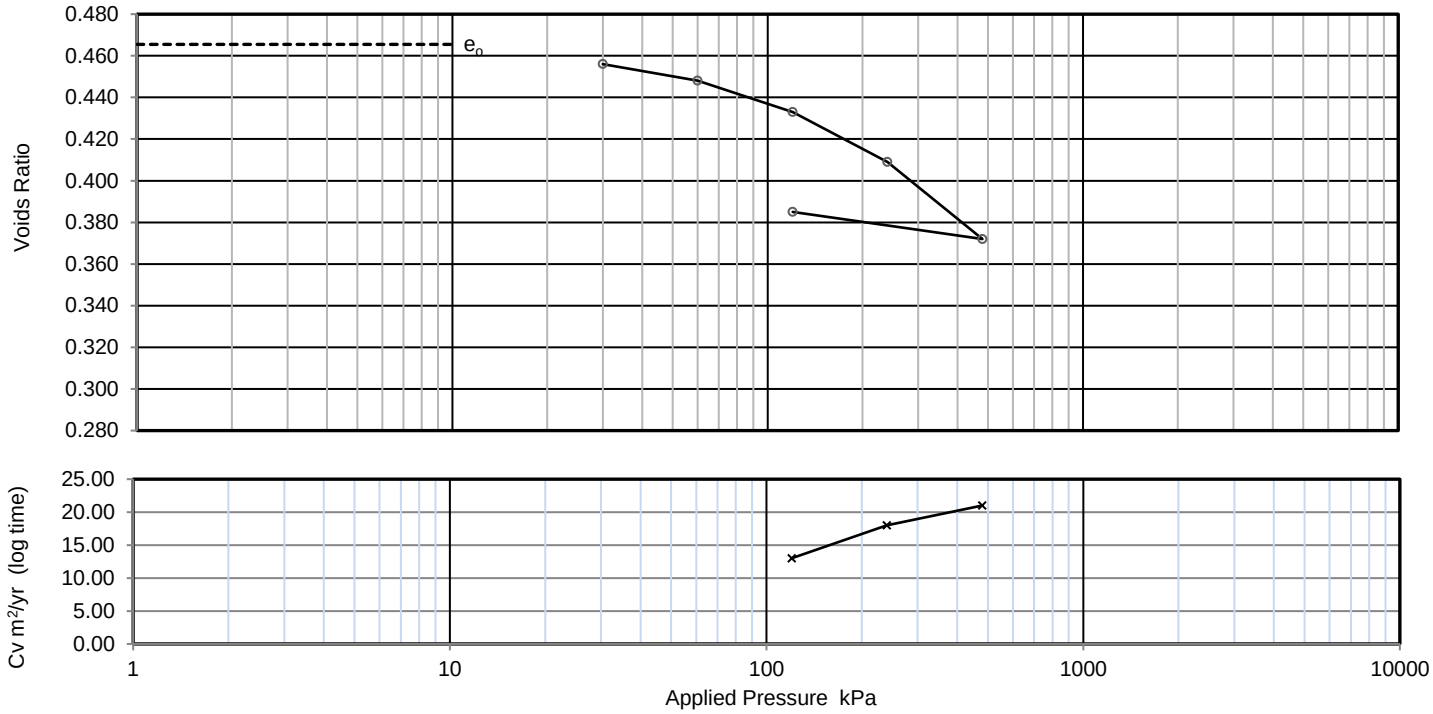
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128557	Depth Top [m]:	3.00
Hole No.:	MPBH704	Depth Base [m]:	3.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Dark brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.465	-	-	-	-
30	0.456	0.23	N/A	N/A	N/A
60	0.448	0.16	N/A	N/A	N/A
120	0.433	0.18	13	16	0.00064
240	0.409	0.14	18	17	0.00085
480	0.372	0.11	21	21	0.0013
120	0.385	0.027			

Preparation

Carried out on top of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.10	-	mm
Height	20.00	18.91	mm
Moisture Content	16	18	%
Bulk density	2.10	2.26	Mg/m3
Dry density	1.81	1.91	Mg/m3
Voids Ratio	0.465	0.385	
Saturation	90	125	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: stage1-swelling
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

UKAS TESTING 4041

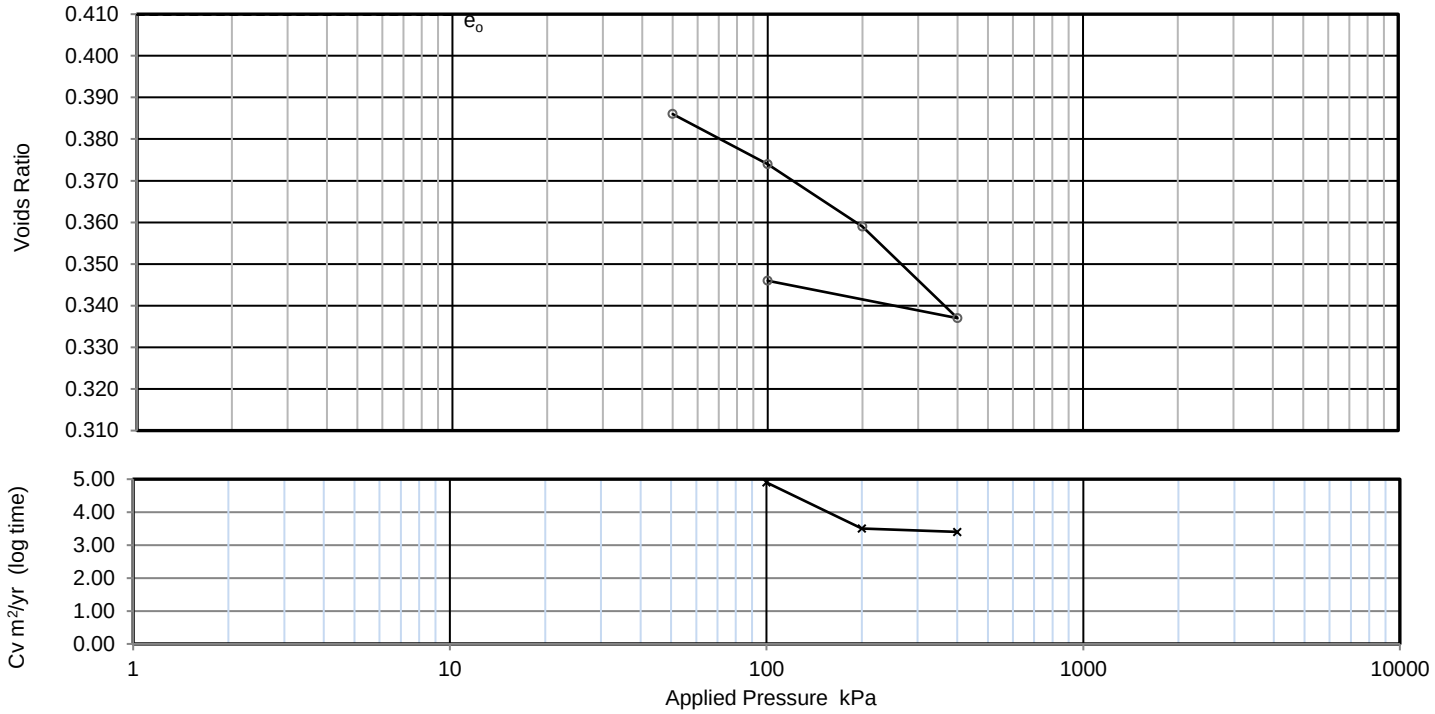
Environmental Science

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128559	Depth Top [m]:	5.00
Hole No.:	MPBH709	Depth Base [m]:	5.45
Sample Reference:	6	Sample Type:	U
Sample Description:	Brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.410	-	-	-	-
50	0.386	0.34	N/A	N/A	0.00036
100	0.374	0.16	4.9	12	0.00035
200	0.359	0.11	3.5	8.4	0.00028
400	0.337	0.078	3.4	8.3	0.00051
100	0.346	0.022			

Preparation

Carried out on middle of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.20	-	mm
Height	20.00	19.10	mm
Moisture Content	17	16	%
Bulk density	2.20	2.29	Mg/m3
Dry density	1.88	1.97	Mg/m3
Voids Ratio	0.410	0.346	
Saturation	109	124	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

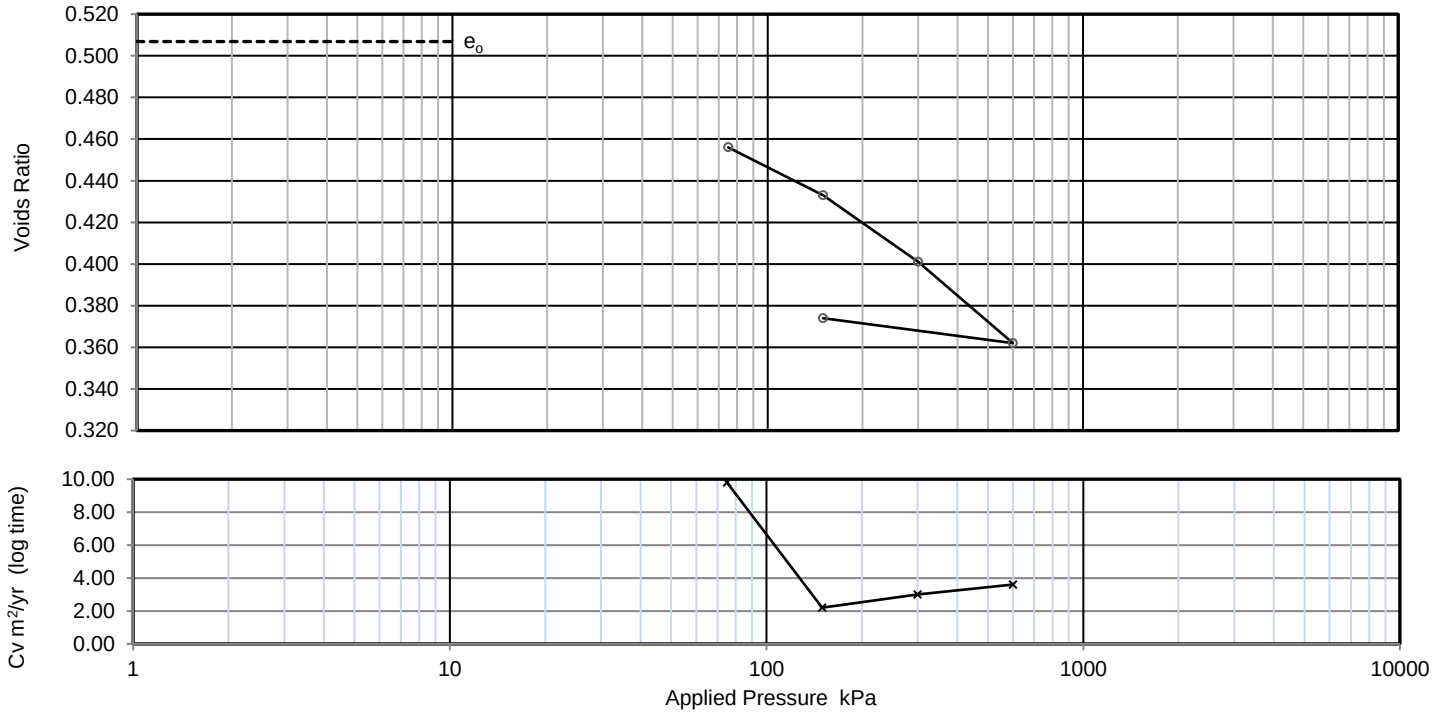
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128560	Depth Top [m]:	7.50
Hole No.:	MPBH709	Depth Base [m]:	7.95
Sample Reference:	11	Sample Type:	U
Sample Description:	Brown slightly gravelly CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.507	-	-	-	-
75	0.456	0.45	9.8	11	0.00093
150	0.433	0.21	2.2	2.6	0.00087
300	0.401	0.15	3	3.3	0.0011
600	0.362	0.094	3.6	5	0.0013
150	0.374	0.02			

Preparation: Sample squeezed out of core

Index tests			
Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.10	-	mm
Height	20.00	18.24	mm
Moisture Content	19	19	%
Bulk density	2.09	2.29	Mg/m3
Dry density	1.76	1.93	Mg/m3
Voids Ratio	0.507	0.374	
Saturation	98	134	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

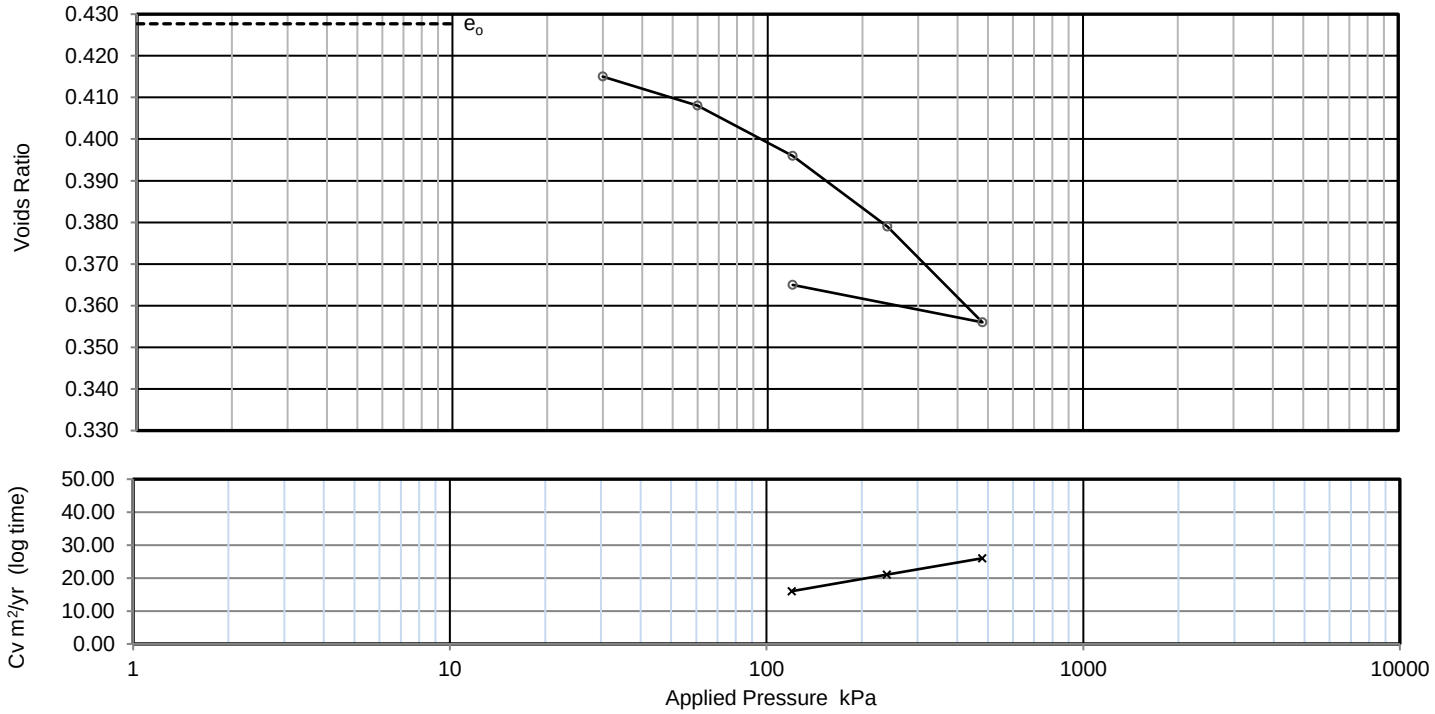
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128562	Depth Top [m]:	3.00
Hole No.:	MPBH715	Depth Base [m]:	3.45
Sample Reference:	7	Sample Type:	U
Sample Description:	Brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.428	-	-	-	-
30	0.415	0.3	N/A	N/A	N/A
60	0.408	0.16	N/A	N/A	N/A
120	0.396	0.15	16	17	0.00054
240	0.379	0.1	21	26	0.00064
480	0.356	0.071	26	35	0.00093
120	0.365	0.02			

Preparation

Carried out on middle of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.00	-	mm
Height	20.00	19.12	mm
Moisture Content	16	17	%
Bulk density	2.14	2.27	Mg/m3
Dry density	1.86	1.94	Mg/m3
Voids Ratio	0.428	0.365	
Saturation	96	123	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Stage 1 - swelling
Preliminary report 2

Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

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Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

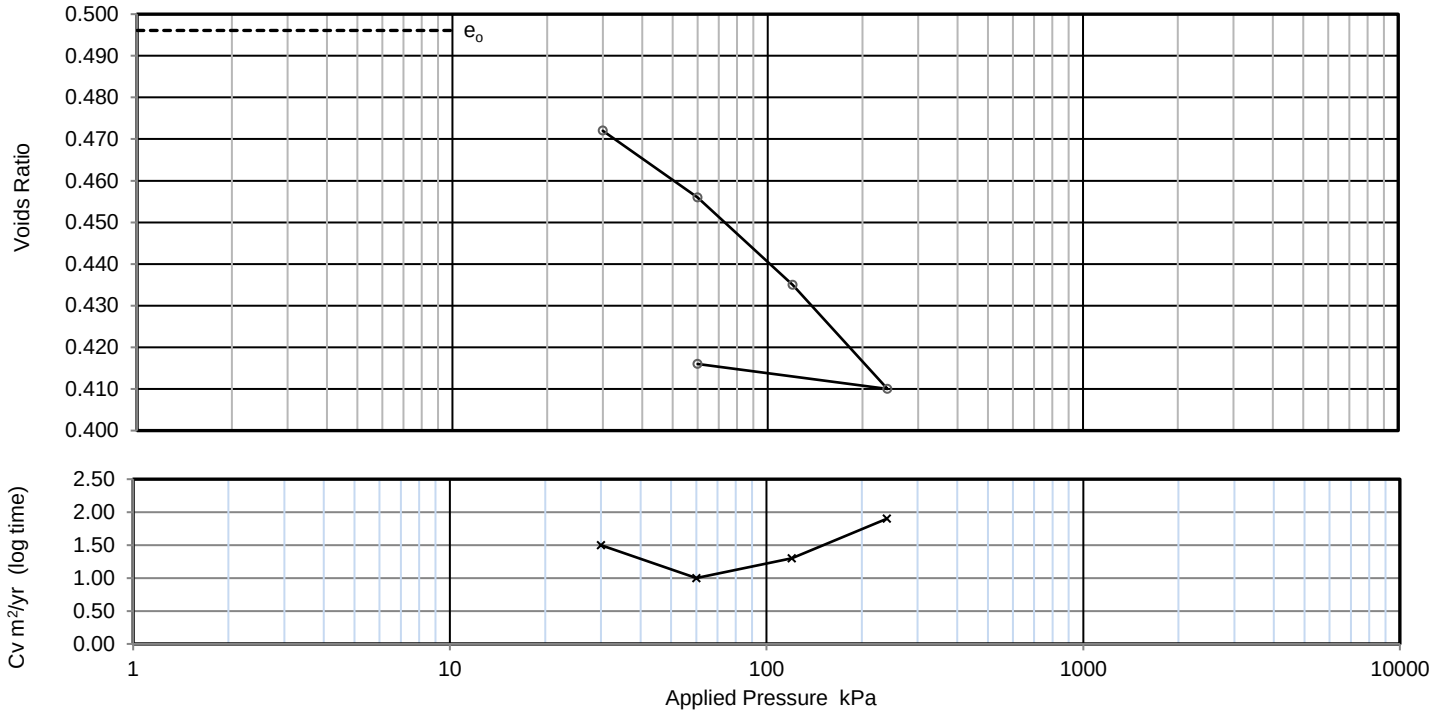
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	12/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128565	Depth Top [m]:	3.00
Hole No.:	MPBH713	Depth Base [m]:	3.45
Sample Reference:	8	Sample Type:	U
Sample Description:	Brown slightly gravelly sandy CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.496	-	-	-	-
30	0.472	0.54	1.5	3.8	0.00095
60	0.456	0.35	1	1.2	0.00043
120	0.435	0.24	1.3	1.7	N/A
240	0.410	0.15	1.9	2	0.00086
60	0.416	0.024			

Preparation: Carried out on top of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.05	-	mm
Height	20.04	18.97	mm
Moisture Content	20	17	%
Bulk density	2.12	2.20	Mg/m3
Dry density	1.77	1.87	Mg/m3
Voids Ratio	0.496	0.416	
Saturation	106	111	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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Signed: Katarzyna Koziel

Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

Tested in Accordance with: BS 1377-5:1990: Clause 3

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

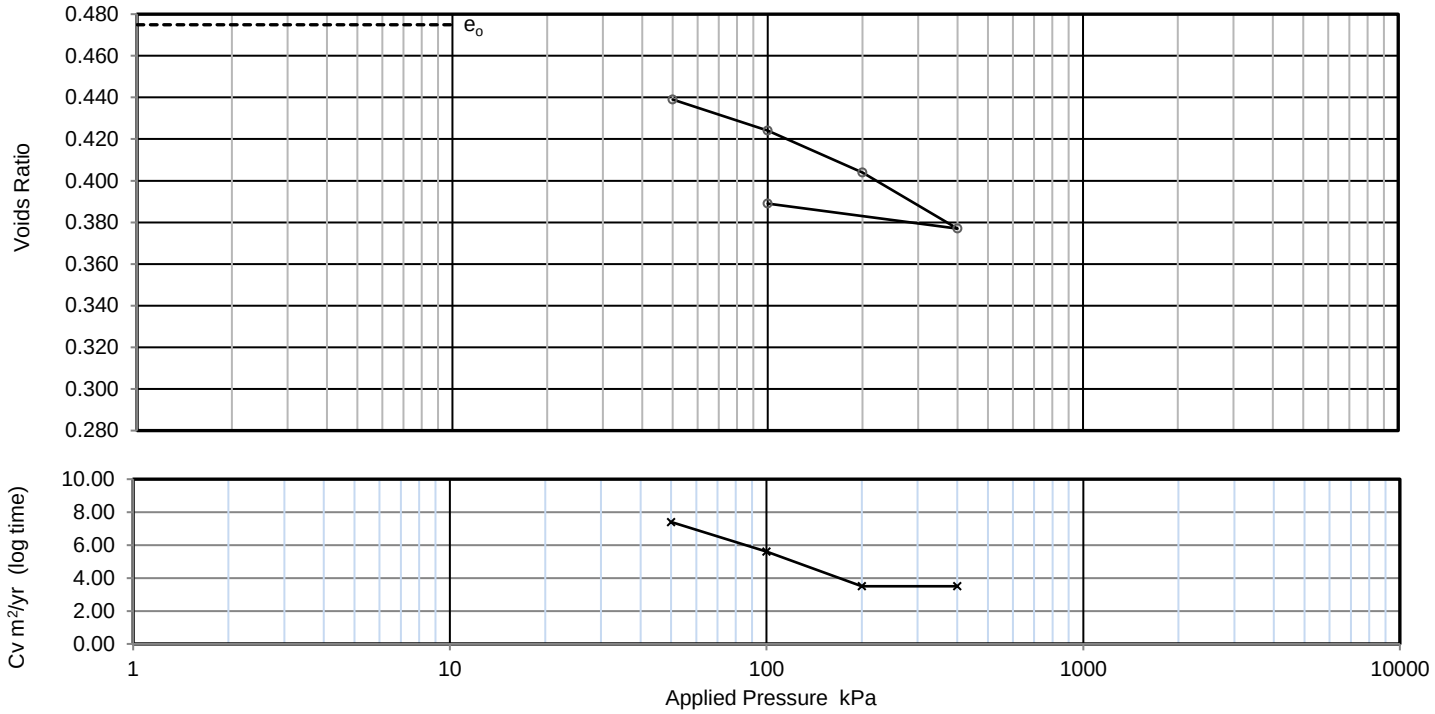
4041

Client:	Hydrock Consultants Ltd	Client Reference:	C-21353-C
Client Address:	4 Lakeside, Festival Park, Stoke on Trent, ST1 5RY	Job Number:	22-31215
		Date Sampled:	01/12/2021
		Date Received:	21/12/2021
Contact:	Russell Sumner	Date Tested:	11/01/2022
Site Address:	Gould Street	Sampled By:	Client - R.S

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

Test Results:

Laboratory Reference:	2128566	Depth Top [m]:	5.00
Hole No.:	MPBH713	Depth Base [m]:	5.45
Sample Reference:	12	Sample Type:	U
Sample Description:	Brown slightly gravelly CLAY		



Applied Pressure kPa	Voids ratio	Mv m2/MN	Cv (t50, log) m2/yr	Cv (t90, root m2/yr	Csec
0	0.475	-	-	-	-
50	0.439	0.48	7.4	15	0.00062
100	0.424	0.21	5.6	22	0.00038
200	0.404	0.14	3.5	11	0.00063
400	0.377	0.098	3.5	9.9	0.0013
100	0.389	0.029			

Preparation: Carried out on top of U100

Index tests

Orientation of the sample	Vertical		
Particle density	assumed	2.65	Mg/m3
Liquid limit	N/A		%
Plastic limit	N/A		%

Specimen details	Initial	Final	
Diameter	50.00	-	mm
Height	20.20	19.02	mm
Moisture Content	19	19	%
Bulk density	2.13	2.28	Mg/m3
Dry density	1.80	1.91	Mg/m3
Voids Ratio	0.475	0.389	
Saturation	104	133	%
Avg. temperature for test	22.0		°C
Swelling Pressure	Not measured		kPa
Settlement on saturation			%
Total test time	5		days

Note: Cv corrected to 20°C

Remarks: Preliminary report 2

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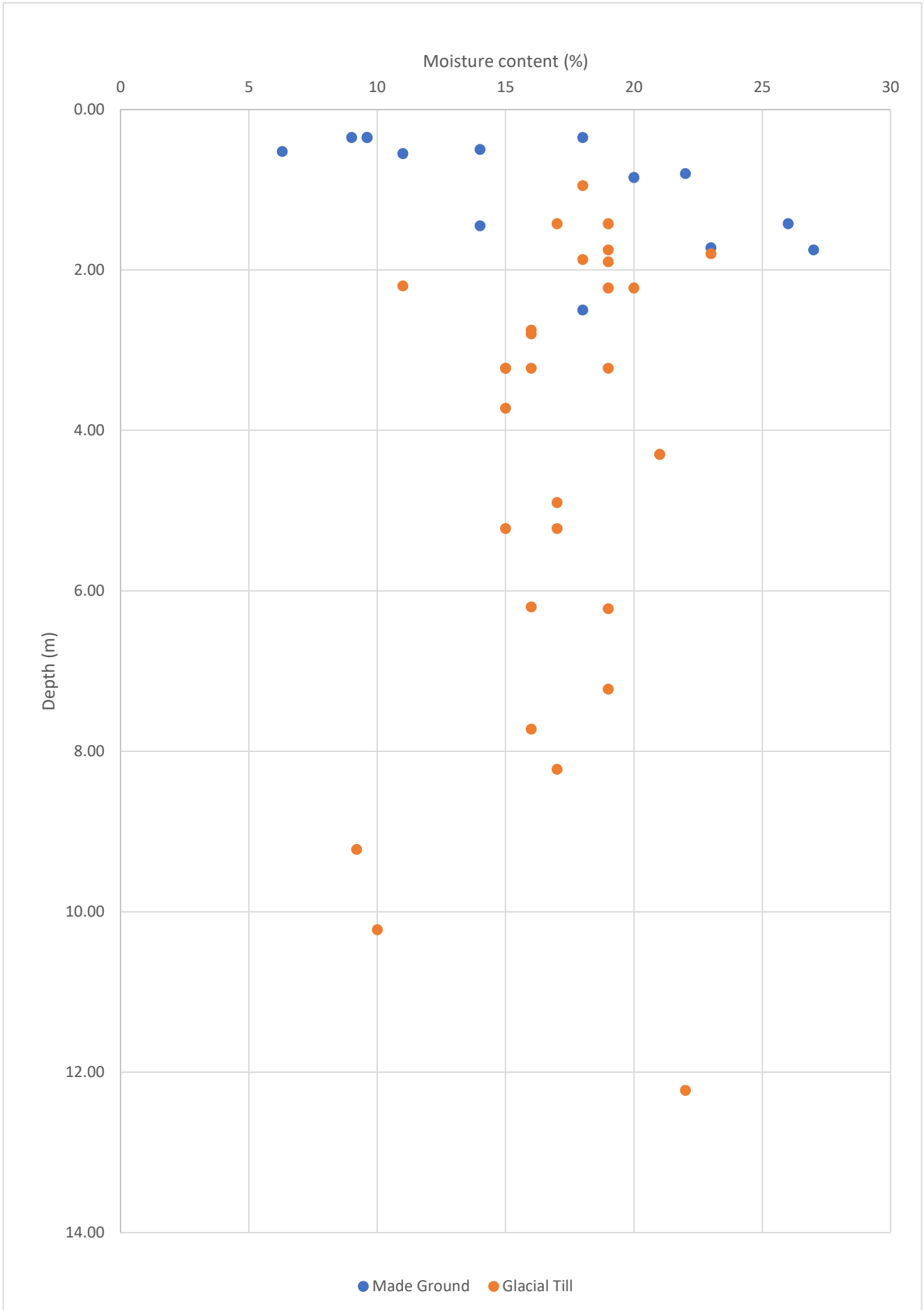
Signed: Katarzyna Koziel

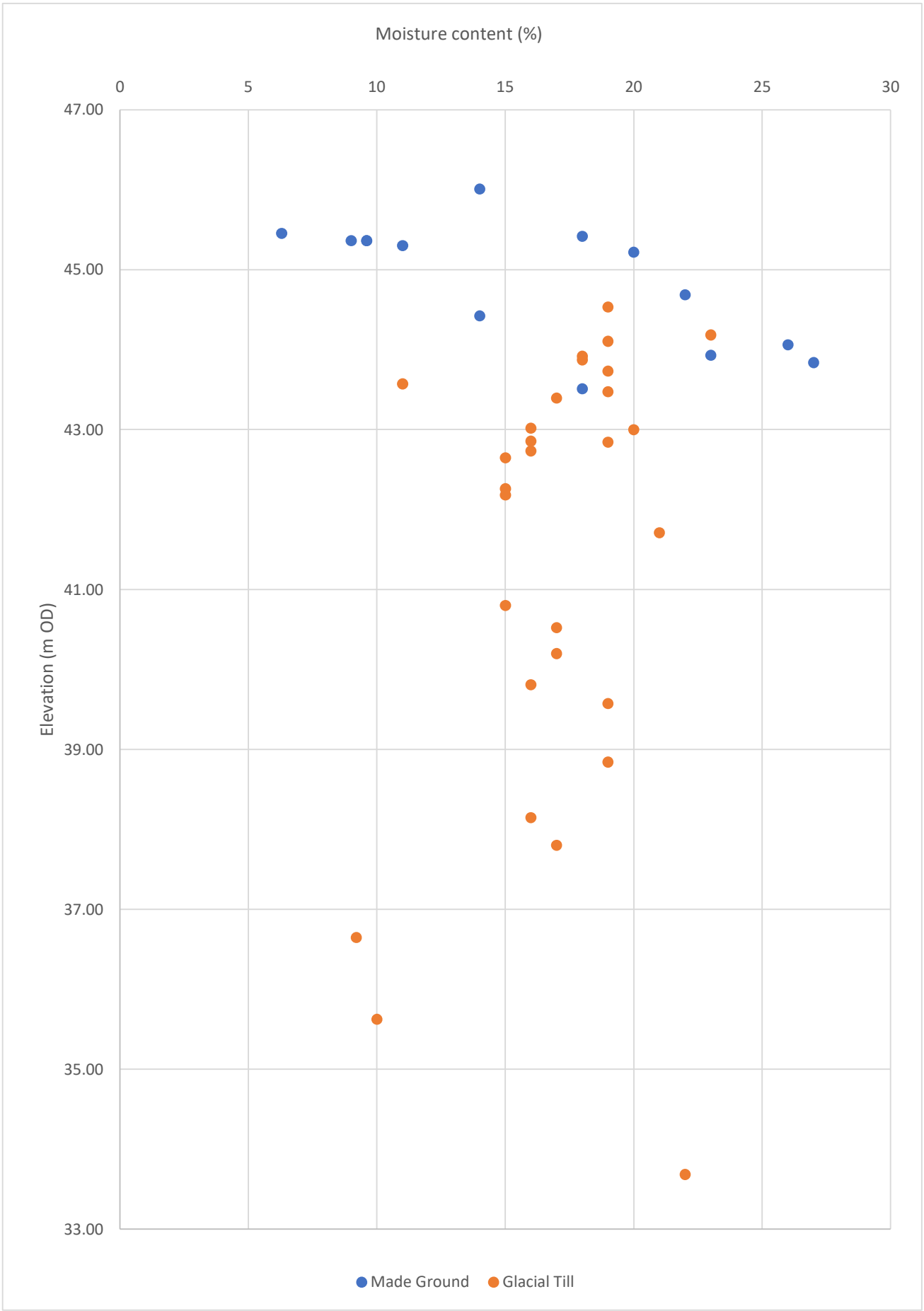
Katarzyna Koziel
Technical Reviewer
for and on behalf of i2 Analytical Ltd

Date Reported: 19/01/2022

GF 172.16

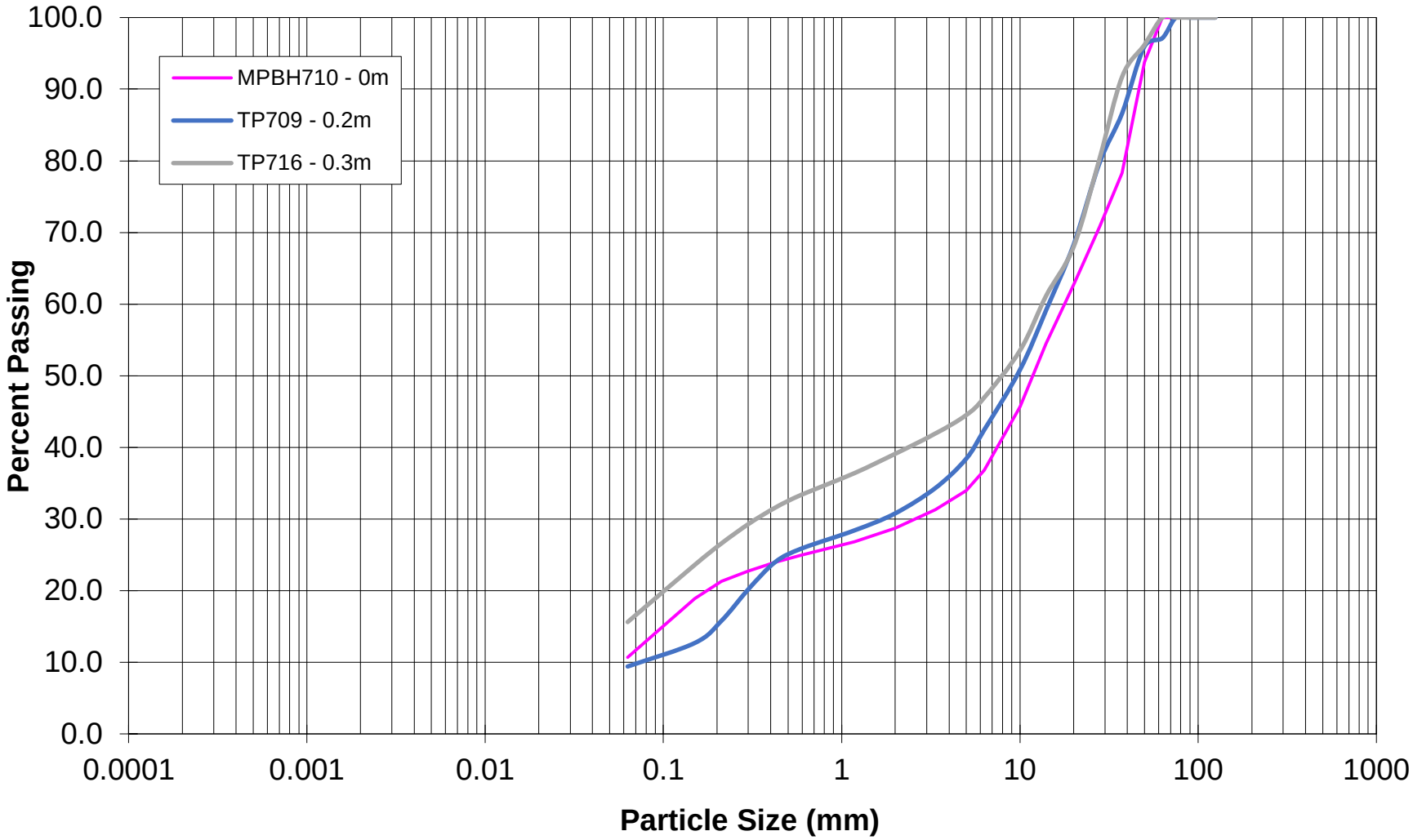
Geotechnical Plots


Moisture content (%)
0
5
10
15
20
25
30
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
Depth (m)
Made Ground
Glacial Till


Moisture content (%)
0
5
10
15
20
25
30
47.00
45.00
43.00
41.00
39.00
37.00
35.00
33.00
Elevation (m OD)
Made Ground
Glacial Till

Made Ground

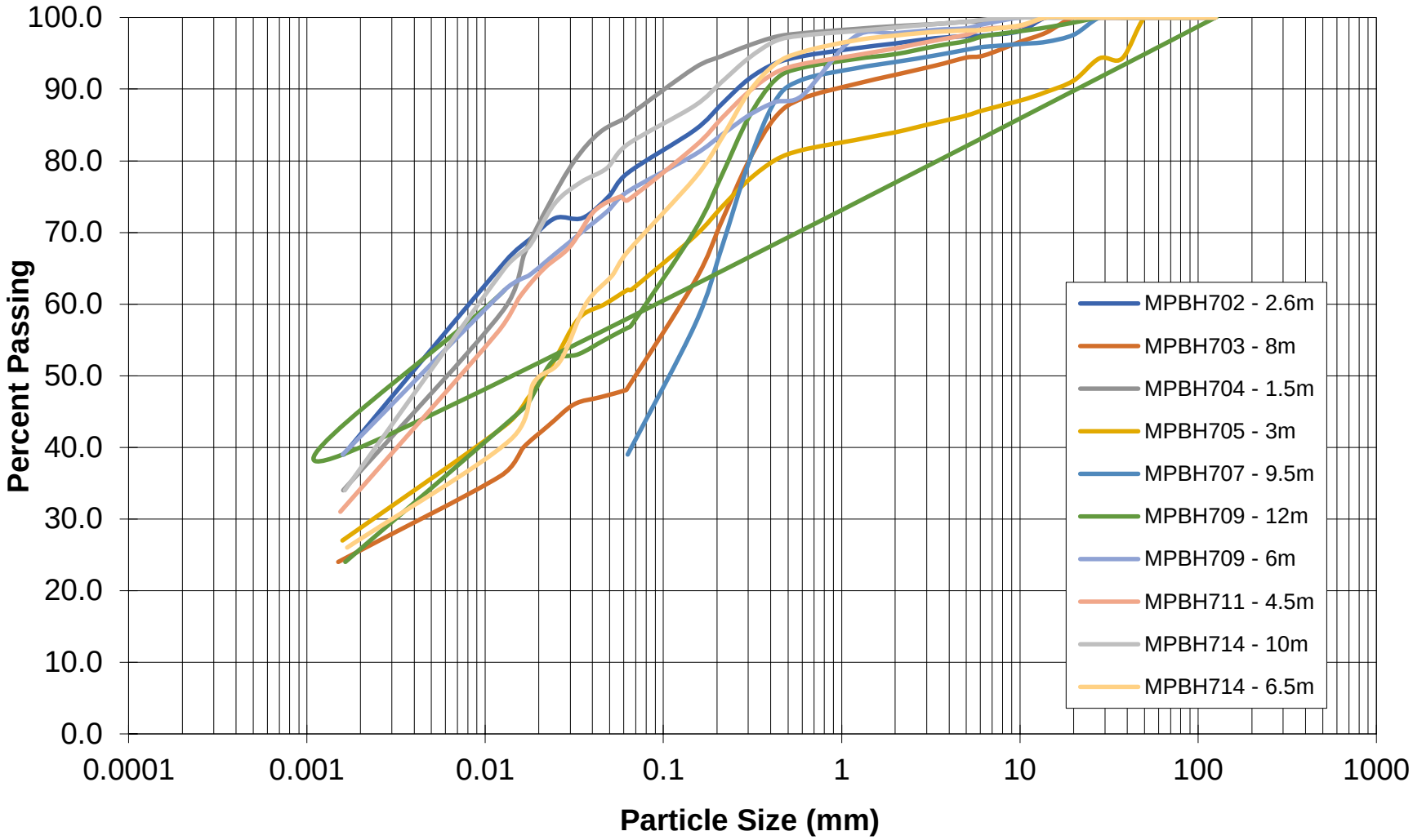
Particle Size Distribution



CLAY FRACTION	SILT FRACTION			SAND FRACTION			GRAVEL FRACTION			COB-
	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	

Glacial Till

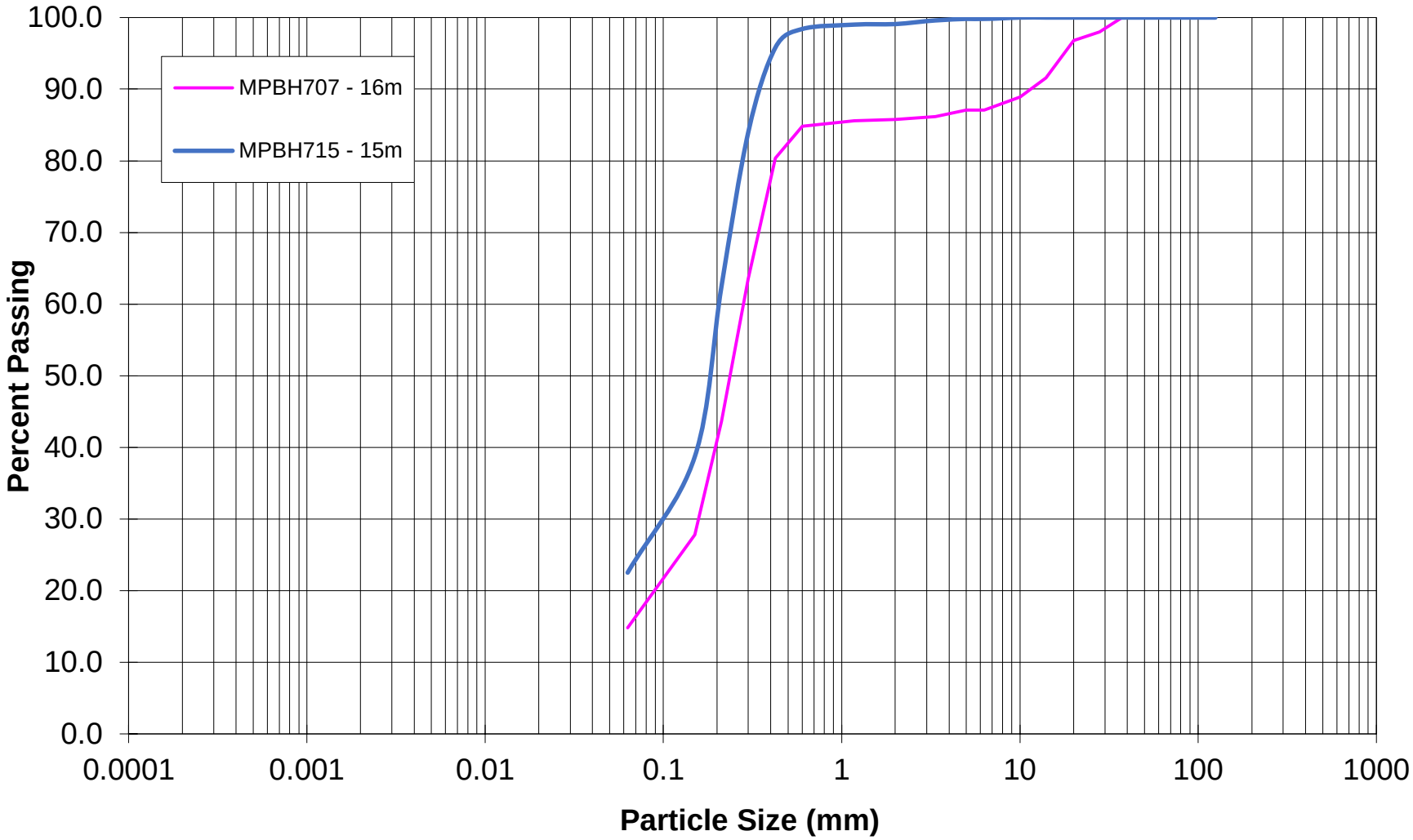
Particle Size Distribution



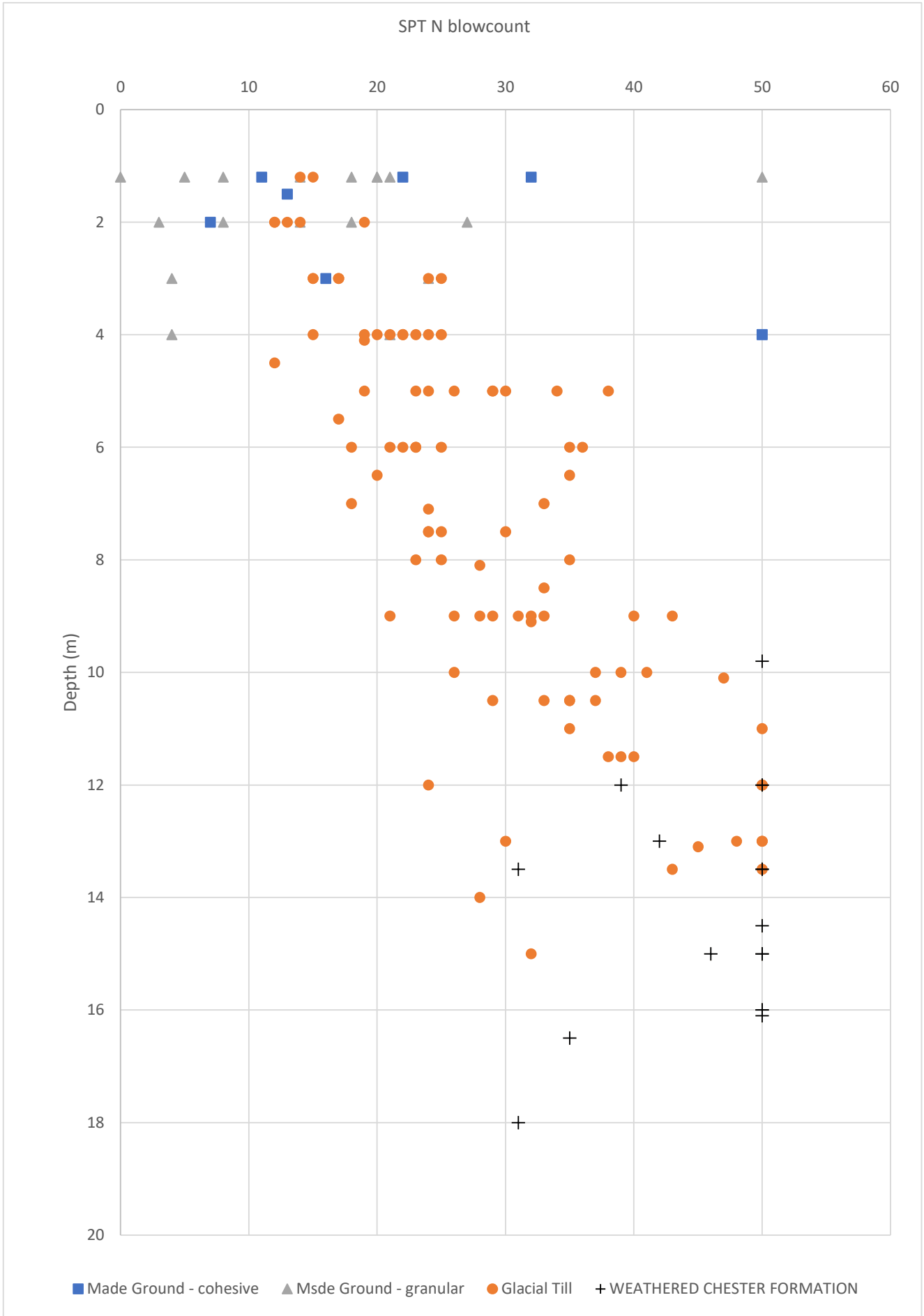
CLAY FRACTION	SILT FRACTION			SAND FRACTION			GRAVEL FRACTION			COB-
	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	

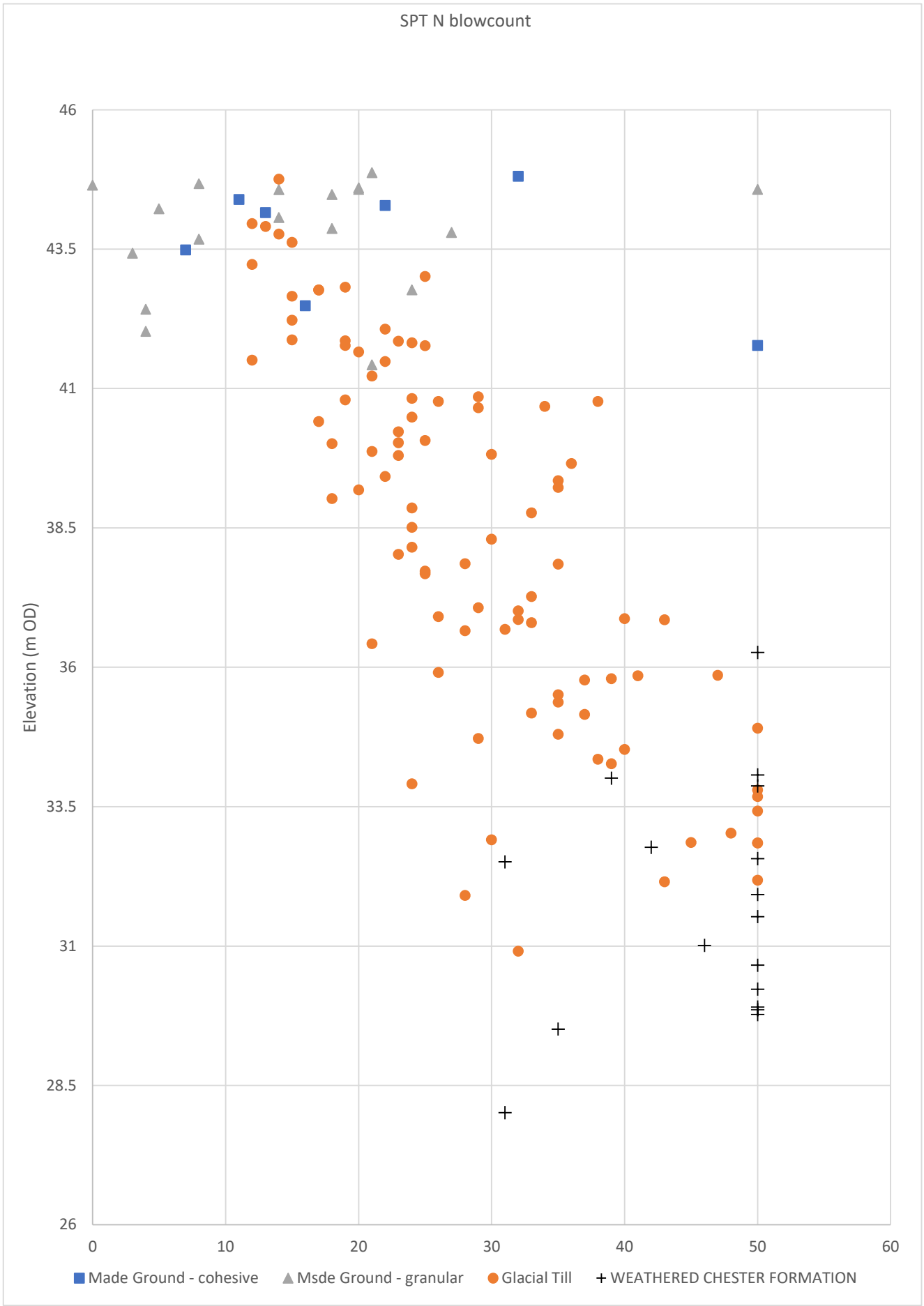
Weathered Chester Formation

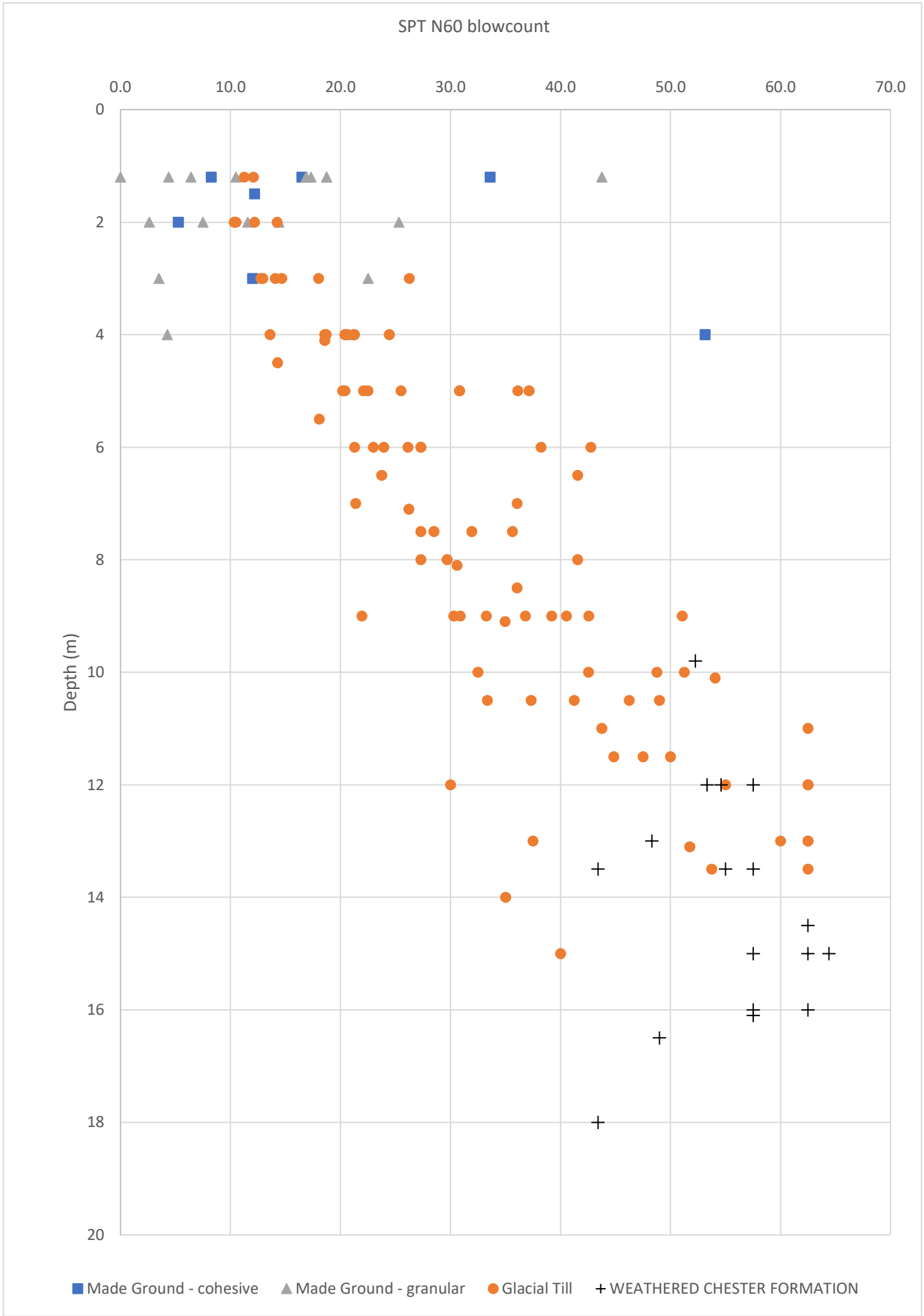
Particle Size Distribution

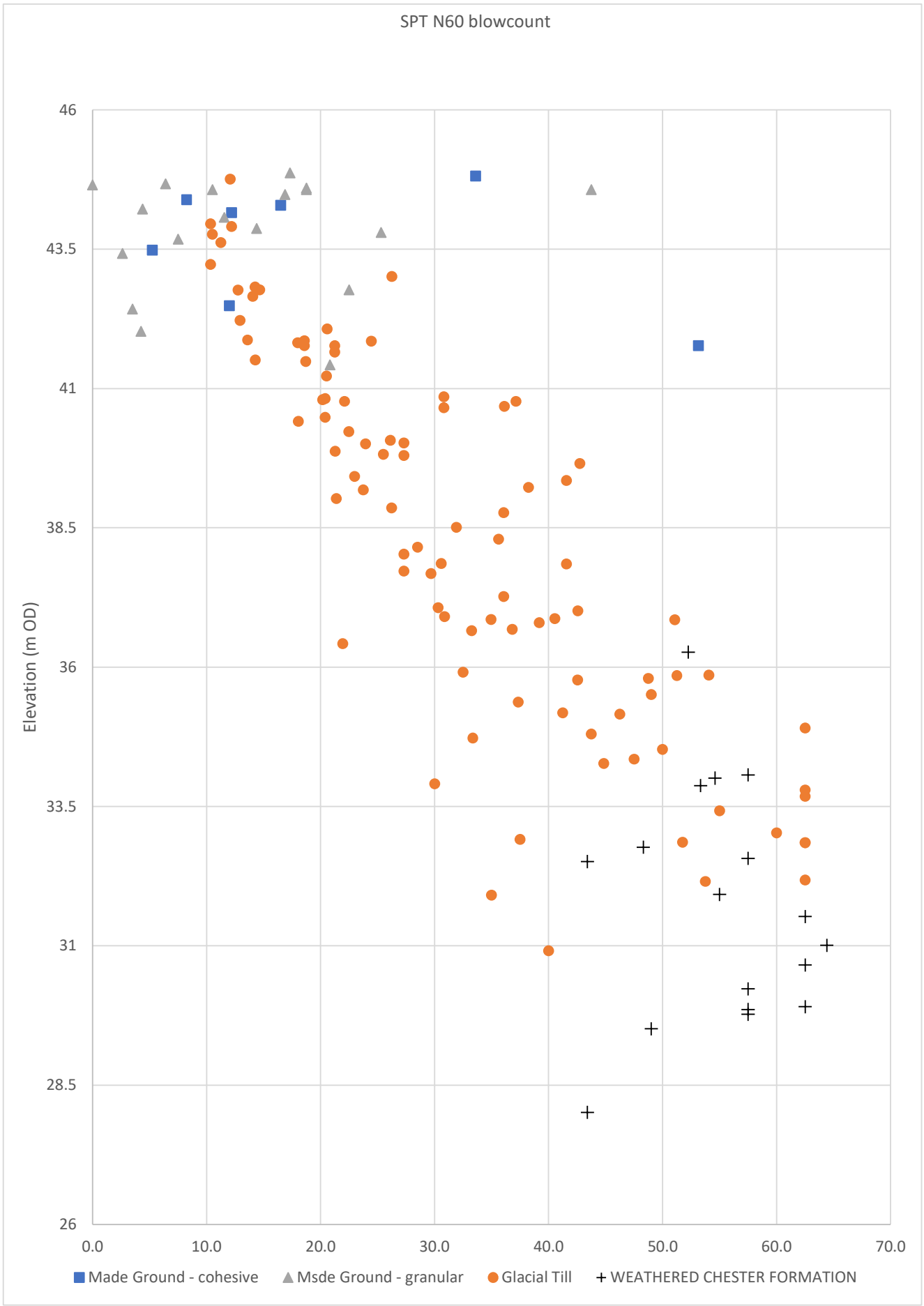


CLAY FRACTION	SILT FRACTION			SAND FRACTION			GRAVEL FRACTION			COB-
	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	FINE	MEDIUM	COARSE	


SPT N blowcount
0
10
20
30
40
50
60
0
2
4
6
8
10
12
14
16
18
20
Depth (m)
Made Ground - cohesive
Msde Ground - granular
Glacial Till
WEATHERED CHESTER FORMATION


SPT N blowcount
Elevation (m OD)
46
43.5
41
38.5
36
33.5
31
28.5
26
0
10
20
30
40
50
60
Made Ground - cohesive
Msde Ground - granular
Glacial Till
WEATHERED CHESTER FORMATION


SPT N60 blowcount
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
0
2
4
6
8
10
12
14
16
18
20
Depth (m)
Made Ground - cohesive
Made Ground - granular
Glacial Till
WEATHERED CHESTER FORMATION


SPT N60 blowcount
Elevation (m OD)
46
43.5
41
38.5
36
33.5
31
28.5
26
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
Made Ground - cohesive
Msde Ground - granular
Glacial Till
WEATHERED CHESTER FORMATION

BRE SD1 Datasheets

Client	Location or material to which this assessment applies
Crowning Developments Limited	MADE GROUND
Project	
Gould Street, Manchester	
Job number	
C21353	

Concrete in aggressive ground

After BRE Special Digest 1, 2005

Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	8	8	8
No. tests in 20% data set	2	2	2
No. tests with suspected pyrite		5	
Maximum value	1680	2.4	35
Mean of highest two values	1145	2	32
Mean of highest 20%			
Characteristic Value	**1145**	**2**	**32**
			Mg not required
	[no pyrite]	**[pyrite suspected]**	
DS Class	**DS-2**	**DS-4**	

If pyrite suspected, DS Class limited to **DS-4**

Is pyrite assumed to be present? **Yes** **Adopted DS Class =** **DS-4**

Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
Characteristic Value (Maximum Level)	0	0 **Mg not required**
DS Class		

pH data

	Soil	Water
Number of tests	8	0
No. tests in 20% data set	2	
Lowest pH	7.4	
Mean of lowest 20%	7.5	
Characteristic value	**7.5**	
Design value	**7.5**	

Number of soil pH results less than 5.5: 0

DS Class design value

Based on higher of soil and water data **DS-4**

ACEC Class design value

Brownfield

Mobile groundwater **AC-4**

Hydrock

Client	Location or material to which this assessment applies
Crowning Developments Limited	GLACIAL TILL
Project	
Gould Street, Manchester	
Job number	
C21353	

Concrete in aggressive ground

After BRE Special Digest 1, 2005

Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	9	9	9
No. tests in 20% data set	2	2	2
No. tests with suspected pyrite		0	
Maximum value	226	0.3	26
Mean of highest two values	197	0	26
Mean of highest 20%	200	0	26
Characteristic Value	**197**	**0**	**26**
			Mg not required
	[no pyrite]	**[pyrite suspected]**	
DS Class	**DS-1**	**DS-1**	

If pyrite suspected, DS Class limited to **DS-1**

Is pyrite assumed to be present? **No** **Adopted DS Class =** **DS-1**

Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
Characteristic Value (Maximum Level)	0	0 **Mg not required**
DS Class		

pH data

	Soil	Water
Number of tests	9	0
No. tests in 20% data set	2	
Lowest pH	8.5	
Mean of lowest 20%	8.5	
Characteristic value	**8.5**	
Design value	**8.5**	
Number of soil pH results less than 5.5	0	

DS Class design value

Based on higher of soil and water data **DS-1**

ACEC Class design value

Brownfield

Mobile groundwater **AC-1**

Hydrock

Client	Location or material to which this assessment applies
Crowning Developments Limited	Weathered Chester Formation
Project	
Gould Street	
Job number	
C21353	

Concrete in aggressive ground

After BRE Special Digest 1, 2005

Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	1	1	1
No. tests in 20% data set	0	0	0
No. tests with suspected pyrite		0	
Maximum value	12	0	3.6
Mean of highest two values	12	0	4
Mean of highest 20%			
Characteristic Value	**12**	**0**	**3.6**
			Mg not required
	[no pyrite]	**[pyrite suspected]**	
DS Class	**DS-1**	**DS-1**	

If pyrite suspected, DS Class limited to **DS-1**

Is pyrite assumed to be present? No **Adopted DS Class =** **DS-1**

Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
Characteristic Value (Maximum Level)	0	0 **Mg not required**
DS Class		

pH data

	Soil	Water
Number of tests	1	0
No. tests in 20% data set	0	
Lowest pH	8.9	
Mean of lowest 20%		
Characteristic value	**8.9**	
Design value	**8.9**	

Number of soil pH results less than 5.5 0

DS Class design value

Based on higher of soil and water data **DS-1**

ACEC Class design value

Brownfield

Mobile groundwater **AC-1**

Hydrock

Client	Location or material to which this assessment applies
Crowning Developments Limited	CHESTER FORMATION
Project	
Gould Street, Manchester	
Job number	
C21353	

Concrete in aggressive ground

After BRE Special Digest 1, 2005

Soil data

	(Adjusted) water soluble sulfate (mg/l)	Total potential sulfate (%)	Water soluble magnesium (mg/l)
Number of tests	5	5	5
No. tests in 20% data set	1	1	1
No. tests with suspected pyrite		0	
Maximum value	89.3	0	8.6
Mean of highest two values	66	0	7
Mean of highest 20%			
Characteristic Value	**66**	**0**	**7**
			Mg not required
	[no pyrite]	**[pyrite suspected]**	
DS Class	**DS-1**	**DS-1**	

If pyrite suspected, DS Class limited to **DS-1**

Is pyrite assumed to be present? No **Adopted DS Class =** **DS-1**

Water data

	(Adjusted) soluble sulfate (mg/l)	Soluble magnesium (mg/l)
Characteristic Value (Maximum Level)	0	0 **Mg not required**
DS Class		

pH data

	Soil	Water
Number of tests	5	0
No. tests in 20% data set	1	
Lowest pH	7.0	
Mean of lowest 20%	7.0	
Characteristic value	**7.0**	
Design value	**7.0**	

Number of soil pH results less than 5.5 0

DS Class design value

Based on higher of soil and water data **DS-1**

ACEC Class design value

Brownfield

Mobile groundwater **AC-1**

Appendix D Site Monitoring Data and Ground Gas Risk Assessment

Site Monitoring Data

Hydrock

Site: Gould Street, Manchester
Job number: C-21353
Client: Crowning Development Limitied

Gas analyser: GFM 435 SERIES
Equipment check OK: Y
Service in date: Y
Calibration check OK: Y
Name of person monitoring: See Notes.

Notes on site conditions:

Date	Operator	Weather Conditions
16/12/2021	A. Edwards	Overcast and mild
11/01/21 and 12/01/21	W. Swinnerton	Cold and sunny spells
18/01/2022	R. Sumner	Cold and sunny spells

Notes: LEL = lower explosive limit = 5%v/v. * where the flow or gas reading is less than the limit of detection of the instrument, the detection limit is reported (Highlighted in **blue**). GSVs are rounded to 3 places.

Monitoring round		Borehole details					Pressure and flow					Gas concentrations										GSV		Local conditions
Date	Time	Borehole	Single or dual gas tap	Response zone depth (m)	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH_4 (%v/v)		CH_4 (%LEL)		CO_2 (%v/v)		O_2 (%v/v)		Other Gases		Gas Screening Value (CH_4) (l/hr)	Gas Screening Value (CO_2) (l/hr)	Notes on condition of borehole and surrounding ground
												Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H_2S (PPM)			
							Max. individual values:				**9.5**	**0.3**		**6.0**		**6.8**		**21.7**				**0.003**	**0.024**	
							Min. individual values:				0.1	0.1		2.0		0.1		0.4				0.000	0.000	**Summary statistics for this monitoring period.**
							Worst-case GSVs based on max. individual flow and max. individual conc. over the duration of this table:															**0.0285**	**0.646**	
16/12/21	AM	MPBH702	S	21.00	19.60		1038	S	15.66	-0.7	0.7	0.1	0.1	2	2	0.2	0.2	21.0	21.2	<1	<1	0.001	0.001	
16/12/21	AM	MPBH703	S	9.00	7.90		1038	S	14.20	0.1	0.1	0.1	0.1	2	2	0.2	1.7	21.1	11.2	32	<1	0.000	0.002	
16/12/21	AM	MPBH704	S	17.75	17.00		1038	S	14.20	-1.6	1.6	0.2	0.2	4	4	0.2	0.2	21.0	21.0	<1	<1	0.003	0.003	
16/12/21	AM	MPBH705	S	13.00	12.06		1038	S	14.24	0.1	0.1	0.1	0.1	2	2	3.5	2.2	13.2	15.3	33	<1	0.000	0.002	
16/12/21	AM	MPBH706	S	21.00	15.49		1038	S	14.20	0.1	0.1	0.1	0.1	2	2	0.4	0.2	20.5	21.1	3	<1	0.000	0.000	
16/12/21	PM	MPBH707	S	10.00	4.45		1039	S	13.47	-2.4	2.4	0.1	0.1	2	2	0.1	0.1	19.9	7.3	295	<1	0.002	0.002	
16/12/21	PM	MPBH708	S	3.50	3.32		1039	S	15.54	0.1	0.1	0.1	0.1	2	2	0.3	0.4	20.0	20.3	17	<1	0.000	0.000	
16/12/21	PM	MPBH709	S	12.00	4.42		1039	S	14.20	0.1	0.1	0.1	0.1	2	2	0.2	0.2	21.5	21.5	<1	<1	0.000	0.000	
16/12/21	PM	MPBH710	S	16.10	16.00		1039	S	1.93	-0.7	0.7	0.1	0.1	2	2	0.2	0.2	21.7	21.7	<1	<1	0.001	0.001	
16/12/21	PM	MPBH711	S	19.00	19.06		1039	S	13.80	-1.6	1.6	0.1	0.1	2	2	1.3	1.3	12.3	9.5	>>>	<1	0.002	0.021	
16/12/21	PM	MPBH713	S	21.00	19.62		1039	S	12.65	-1.9	1.9	0.1	0.1	2	2	0.1	0.1	21.2	21.2	2	<1	0.002	0.002	
16/12/21	PM	MPBH715	S	21.00	19.36		1039	S	14.15	-0.5	0.5	0.1	0.1	2	2	0.2	0.2	21.2	21.2	<1	<1	0.001	0.001	
16/12/21	AM	WS701	S	4.00	2.18		1038	S	14.20	0.1	0.1	0.1	0.1	2	2	0.8	0.9	20.9	17.4	<1	<1	0.000	0.001	
16/12/21	AM	WS702	S	3.00	2.82		1038	S	14.20	0.1	0.1	0.1	0.1	2	2	1.0	1.0	20.1	18.8	<1	<1	0.000	0.001	
16/12/21	PM	WS703	S	1.70	1.60		1039	S	15.20	0.1	0.1	0.1	0.1	2	2	0.2	0.5	21.2	20.2	<1	<1	0.000	0.001	
16/12/21	PM	WS704	S	1.70	1.60		1039	S	15.42	0.1	0.1	0.1	0.1	2	2	1.2	1.2	21.3	19.5	<1	<1	0.000	0.001	
12/01/22	AM	MPBH701	S	13.15	8.38		1036	R	-41.63	0.1	0.1	0.1	0.1	2	2	2.4	2.4	0.4	0.4	142	<1	0.000	0.002	Peak CO = 214ppm
12/01/22	AM	MPBH702	S	21.61	19.63		1036	R	-3.61	0.1	0.1	0.2	0.2	4	4	0.1	0.1	21.4	21.5	<1	<1	0.000	0.000	
11/01/22	PM	MPBH703	S	11.69	10.00		1027	R	0.05	0.1	0.1	0.1	0.1	2	2	1.2	1.2	7.8	7.8	<1	<1	0.000	0.001	
11/01/22	PM	MPBH704	S	17.21	17.21	D	1027	R	-8.41	0.1	0.1	0.1	0.1	2	2	7.0	6.8	5.2	5.2	3	<1	0.000	0.007	
12/01/22	AM	MPBH705	S	13.30	10.21		1037	R	-13.96	0.1	0.1	0.1	0.1	2	2	1.9	1.9	10.4	10.4	<1	<1	0.000	0.002	
11/01/22	PM	MPBH706	S	20.09	15.62		1026	R	0.19	0.1	0.1	0.1	0.1	2	2	0.2	0.1	20.9	21.3	<1	<1	0.000	0.000	
11/01/22	PM	MPBH707	S	9.67	6.60		1027	R	-7.71	0.1	0.1	0.1	0.1	2	2	0.1	0.1	8.6	8.6	<1	<1	0.000	0.000	
11/01/22	PM	MPBH708	S	3.37	3.37	D	1027	R	0.00	0.1	0.1	0.1	0.1	2	2	1.6	1.6	19.5	19.6	<1	<1	0.000	0.002	
11/01/22	PM	MPBH709	S	12.10	4.40		1026	R	-3.82	0.1	0.1	0.1	0.1	2	2	0.3	0.3	21.0	21.0	<1	<1	0.000	0.000	
11/01/22	PM	MPBH710	S	16.27	16.27	D	1026	R	-5.83	0.1	0.1	0.1	0.1	2	2	0.4	0.4	21.4	21.4	<1	<1	0.000	0.000	

Monitoring round		Borehole details					Pressure and flow					Gas concentrations										GSV		Local conditions
Date	Time	Borehole	Single or dual gas tap	Response zone depth (m)	Depth to water or depth of hole if dry (m)	D denotes dry hole	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	CH_4 (%v/v)		CH_4 (%LEL)		CO_2 (%v/v)		O_2 (%v/v)		Other Gases		Gas Screening Value (CH_4) (l/hr)	Gas Screening Value (CO_2) (l/hr)	Notes on condition of borehole and surrounding ground
												Peak	Steady	Peak	Steady	Peak	Steady	Peak	Steady	CO (PPM)	H_2S (PPM)			
11/01/22	PM	MPBH711	S	19.19	18.15		1026	R	-9.18	0.1	0.1	0.1	0.1	2	2	1.7	1.7	3.8	3.8	<1	<1	0.000	0.002	
11/01/22	PM	MPBH713	S	21.79	19.51		1026	R	-10.35	0.1	0.1	0.1	0.1	2	2	2.0	2.0	3.8	3.8	<1	<1	0.000	0.002	
11/01/22	AM	MPBH714D	D	9.61	4.18		1026	R	0.05	0.1	0.1	0.1	0.1	2	2	0.1	0.1	21.1	21.4	29	<1	0.000	0.000	
11/01/22	AM	MPBH714S	D	1.58	1.42		1026	R	0.00	0.1	0.1	0.1	0.1	2	2	0.1	0.1	21.6	21.7	<1	<1	0.000	0.000	
11/01/22	AM	MPBH715	S	20.96	19.39		1025	R	-1.56	0.1	0.1	0.3	0.3	6	6	0.1	0.1	21.2	21.3	<1	<1	0.000	0.000	
12/01/22	AM	WS701	S	4.11	2.09		1036	R	-3.91	0.1	0.1	0.1	0.1	2	2	1.3	1.3	15.0	15.0	<1	<1	0.000	0.001	
11/01/22	PM	WS702	S	3.00	2.79		1026	R	15.12	0.1	0.1	0.1	0.1	2	2	0.7	0.7	20.6	20.6	<1	<1	0.000	0.001	
11/01/22	PM	WS703	S	1.70	1.46		1026	R	1.75	0.1	0.1	0.1	0.1	2	2	0.9	0.9	18.1	18.1	<1	<1	0.000	0.001	
11/01/22	PM	WS704	S	1.70	1.55		1026	R	0.04	0.1	0.1	0.1	0.1	2	2	1.4	1.4	20.3	20.3	<1	<1	0.000	0.001	
18/01/22	AM	MPBH701	S	13.15	9.87		1032	R	-14.43	0.3	5.2	0.1	0.1	2	2	0.6	0.6	20.8	17.0	<1	<1	0.000	0.002	PID=1.1ppm
18/01/22	AM	MPBH702	S	21.50	19.48		1032	R	0.02	0.1	0.1	0.1	0.1	2	2	0.1	0.1	21.3	21.3	<1	<1	0.000	0.000	PID=0.7ppm
18/01/22	AM	MPBH703	S	10.15	10.15	D	1031	R	0.18	0.1	0.1	0.1	0.1	2	2	1.3	1.3	18.0	10.8	<1	<1	0.000	0.001	PID=1.0ppm
18/01/22	AM	MPBH704	S	17.21	17.21	D	1031	R	0.49	0.1	0.3	0.1	0.1	2	2	0.2	0.2	20.2	21.1	<1	<1	0.000	0.000	PID=1.3ppm
18/01/22	PM	MPBH705	S	13.27	11.07		1030	R	-0.1	0.2	1.1	0.1	0.1	2	2	0.1	0.1	21.4	21.4	<1	<1	0.000	0.000	PID=21.4ppm
18/01/22	AM	MPBH706	S	20.00	14.35		1032	R	0.49	0.1	0.1	0.2	0.2	4	4	1.1	0.6	18.1	18.4	<1	<1	0.000	0.001	PID=1.3ppm
18/01/22	AM	MPBH707	S	9.67	8.96		1031	R	12.70	0.2	2.3	0.1	0.1	2	2	0.1	0.1	10.4	0.6	39	<1	0.000	0.000	PID=0.5ppm
18/01/22	AM	MPBH708	S	3.37	3.37	D	1031	R	0.02	0.1	0.1	0.1	0.1	2	2	2.0	2.2	20.0	19.9	<1	<1	0.000	0.002	PID=1.2ppm
18/01/22	PM	MPBH709	S	12.10	4.41		1030	R	0.09	1.7	0.5	0.1	0.1	2	2	0.1	0.1	21.4	21.3	<1	<1	0.002	0.002	PID=0.1ppm
18/01/22	PM	MPBH710	S	16.20	16.20	D	1030	R	0.49	0.1	0.3	0.1	0.1	2	2	0.6	0.6	21.1	20.6	<1	<1	0.000	0.001	PID=0.1ppm
18/01/22	AM	MPBH711	S	19.19	18.85		1032	R	-0.16	0.2	1.6	0.2	0.2	4	4	2.1	2.1	20.7	10.1	<1	<1	0.000	0.004	PID=0.8ppm
18/01/22	AM	MPBH713	S	21.79	19.53		1032	R	-0.18	0.1	0.1	0.1	0.1	2	2	0.1	0.1	21.6	21.5	<1	<1	0.000	0.000	PID=0.5ppm
18/01/22	PM	MPBH714D	D	9.61	6.67		1030	R	-0.04	0.1	0.1	0.1	0.1	2	2	0.3	0.2	19.8	20.8	40	<1	0.000	0.000	PID=0.6ppm Peak CO= 138ppm
18/01/22	PM	MPBH714S	D	1.58	1.58	D	1030	R	0.04	0.1	0.1	0.1	0.1	2	2	0.1	0.1	21.3	21.3	10	<1	0.000	0.000	PID=0.1ppm
18/01/22	AM	MPBH715	S	20.70	19.30		1032	R	-0.28	0.1	0.1	0.1	0.1	2	2	0.1	0.1	21.6	21.7	<1	<1	0.000	0.000	PID=0.5ppm
18/01/22	PM	WS701	S	4.11	3.70		1030	R	1.10	2.0	9.5	0.1	0.1	2	2	1.2	1.2	20.8	17.3	<1	<1	0.002	0.024	PID=1.0ppm
18/01/22	PM	WS702	S	3.00	3.00	D	1030	R	-0.04	0.1	0.1	0.1	0.1	2	2	1.1	1.1	19.0	18.7	<1	<1	0.000	0.001	PID=0.1ppm
18/01/22	PM	WS703	S	1.70	1.70	D	1030	R	-1.09	0.1	0.1	0.1	0.1	2	2	1.0	1.0	20.5	17.6	<1	<1	0.000	0.001	PID=0.1ppm
18/01/22	PM	WS704	S	1.70	1.63		1030	R	-14.62	0.1	0.1	0.1	0.1	2	2	1.6	1.6	21.2	19.7	<1	<1	0.000	0.002	PID=35.9ppm
18/01/22	AM	BH05A	S	11.00	11.00	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	AM	BH08 (P3)	S	6.00	3.70		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	AM	BH303A (P3)	S	24.00	19.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	AM	BH301 (P3)	S	24.20	18.93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	AM	BH302A	S	23.65	19.45		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	PM	WS11	S	1.38	1.38	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	PM	WS310	S	0.78	0.78	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	PM	BH02A (P3)	S	18.81	15.54		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	PM	BH03A (P3)	S	18.40	15.09		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	AM	BH305 (P3)	S	9.17	2.61		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung
18/01/22	PM	BH06 (P4)	S	8.97	6.30		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to monitor gas due to missing or open bung

Appendix E Contamination Test Results and Statistical Analysis

Contamination Test Results (Soils)

Russell Sumner
Hydrock Consultants Ltd
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Festival Park
Stoke on Trent
ST1 5RY

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Croxley Green
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Combined Report - Gould Street C21353

Project / Site name:	Gould Street	**Samples received on:**	18/11/2021
Your job number:	C21353	**Samples instructed on/ Analysis started on:**	18/11/2021
Your order number:		**Analysis completed by:**	24/12/2021
Report Issue Number:	Combined	**Report issued on:**	24/12/2021
Samples Analysed:	1 bulk sample - 91 soil samples		

Signed: A. Czerwińska

Agnieszka Czerwińska
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	41	41	30	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	8.2	8.5	19	11
Total mass of sample received	kg	0.001	NONE	1.6	1.6	0.80	0.80	0.50
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	Chrysotile	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Detected	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	0.013	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	0.013	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SCA	DSA	SCA	DSA	
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.3	8.1	7.7	7.0	6.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	-	-	60000
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	-	6.02
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.037	0.12	2.0	1.3	2.1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	2150
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-	-	120
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	61
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	25000
Total Sulphur	%	0.005	MCERTS	-	-	-	-	2.52
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	-	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	-	-	< 0.05
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.019	0.0044	0.061	0.060	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	-	-	34
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	-	-	17
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	2.0	1.7	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.38	1.5	320	21	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.43	57	7.5	-
Acenaphthene	mg/kg	0.05	MCERTS	0.20	0.75	140	23	-
Fluorene	mg/kg	0.05	MCERTS	0.23	0.92	160	16	-
Phenanthrene	mg/kg	0.05	MCERTS	1.8	7.8	1100	140	-
Anthracene	mg/kg	0.05	MCERTS	0.45	1.4	210	50	-
Fluoranthene	mg/kg	0.05	MCERTS	2.0	6.4	750	180	-
Pyrene	mg/kg	0.05	MCERTS	2.1	6.9	750	210	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.99	2.8	400	170	-
Chrysene	mg/kg	0.05	MCERTS	0.97	2.7	340	130	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.94	2.4	330	200	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.52	1.1	100	57	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.91	2.2	260	200	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.48	1.1	110	80	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.30	40	24	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.59	1.4	130	93	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	12.7	40.0	5160	1600	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
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	7.3	130	200	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.71	0.96	0.50	0.90	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	0.2	1.3	0.9	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	< 1.2	-
Chromium (III)	mg/kg	1	NONE	23	31	14	18	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	31	15	18	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	41	17	59	96	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	55	12	99	45	-
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	18	30	25	43	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	24	32	24	28	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76	48	70	50	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	-	130
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	-	64
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	35	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	12	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	-	77	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	-	70	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	-	8.7	2.5	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	-	32	37	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	45	97	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	100	1500	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	150	1600	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	< 8.4	2300	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	190	1600	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	190	3900	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	0.035	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	0.25	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	-	190	9.9	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	-	690	45	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	2300	200	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	2000	1500	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	490	1800	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	5200	1800	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	5700	3600	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	5800	7500	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
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	1	ISO 17025	-	-	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	ND	-
VOC % Match	%	N/A	NONE	-	-	-	0	-
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	MCERTS	-	-	-	< 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	MCERTS	-	-	-	< 0.3	-
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	-	2.1	-
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	-	-	-	21	-
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	MCERTS	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	16	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	7.5	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	23	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	9.1	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	16	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 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	-	-	-	140	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	50	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	14	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	3.9	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	180	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	210	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	170	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	130	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	200	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	57	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	200	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	80	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	24	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	93	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 2,3,6-trimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Triphenylene	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Dibenz(a,e)aceanthrylene	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	3,4:9,10-Dibenzopyrene	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Benzo[e]pyrene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Perylene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Benzonitrile, 2-(2-hydroxy-3,5-dichlorobenzylidenamino)-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 1,6-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

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Project / Site name: Gould Street

Lab Sample Number				2087478	2087480	2087481	2087482	2087483
Sample Reference				MPBH703A	TP708	TP704	TP704	TP704
Sample Number				1	1	3	5	4
Depth (m)				0.20-0.40	0.40-0.40	0.90-1.10	1.15-1.15	1.05-1.05
Date Sampled				16/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Eicosane	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	9H-Fluorene, 2-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.6	11	15	18	22
Total mass of sample received	kg	0.001	NONE	1.0	0.80	0.80	0.80	0.80

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

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.6	9.1	8.6	-	8.3
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.099	0.17	0.16	-	3.5
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	-	-	460
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0041	0.0041	0.015	-	0.043
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	-	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	-	-	-

Phenols by HPLC

Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	< 0.10
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	< 0.20
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	< 0.10
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	22
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	< 0.30

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	5.4
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	22

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	360
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.30	-	63
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	25
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.39	-	120
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.75	2.1	-	510
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.24	0.64	-	140
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.75	2.2	-	310
Pyrene	mg/kg	0.05	MCERTS	< 0.05	0.72	2.3	-	290
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.36	1.1	-	120
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.29	1.1	-	100
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.36	0.92	-	100

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.15	0.49	-	44
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.37	0.89	-	96
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.56	-	47
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	14
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.59	-	59
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	3.99	13.6	-	2400

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
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	4.4	6.9	56	-	25
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.3	5.5	-	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.4	1.3	-	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	< 1.2	-	< 1.2
Chromium (III)	mg/kg	1	NONE	30	31	39	-	21
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	32	40	-	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	26	380	-	44
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	23	140	-	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	1.7
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	32	97	-	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33	37	98	-	21
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	70	480	-	87
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	-	41	3700
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	5000
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	35	3300
p & m-xylene	µg/kg	1	MCERTS	-	-	-	13	12000
o-xylene	µg/kg	1	MCERTS	-	-	-	14	5900
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	71
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	-	-	< 1.0	7.7
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	-	-	< 2.0	36
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	-	< 8.0	45
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	-	< 8.0	84
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	-	< 10	130
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	-	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	-	< 10	240
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	-	< 10	240
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	0.041	3.7
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	5.0
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	0.14	30
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	-	-	4.7	190
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	-	-	50	420
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	-	240	1000
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	-	290	860
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	-	26	290
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	-	580	2600
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	-	600	2800
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	-	600	3100

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
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	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	41	3700
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	5000
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	35	3300
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	13	12000
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	14	5900
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	440
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	650
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	2100
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	78	6000
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	240
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	ND	ND
VOC % Match	%	N/A	NONE	-	-	-	0	0
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 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	MCERTS	-	-	-	< 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	-	-	-	8.8	360
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	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	1.7	100
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	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	13	63
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	6.8	25
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	19	64
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	34	120
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 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	-	-	-	140	510
Anthracene	mg/kg	0.05	MCERTS	-	-	-	44	140
Carbazole	mg/kg	0.3	MCERTS	-	-	-	8.6	32
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	1.2	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	120	310
Pyrene	mg/kg	0.05	MCERTS	-	-	-	130	290
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	55	120

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	46	100
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	54	100
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	15	44
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	52	96
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	25	47
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	5.2	14
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	29	59

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	Triphenylene	Triphenylene
SVOC % Match	%	N/A	NONE	-	-	-	98	98
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Dibenz[a,h]anthracene	Naphthalene, 1,3-dimethyl-
SVOC % Match	%	N/A	NONE	-	-	-	98	97
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Pentaphene	Phenanthrene, 1-methyl-
SVOC % Match	%	N/A	NONE	-	-	-	98	97
SVOCs TICs Compound Name		N/A	NONE	-	-	-	1,2:4,5-Dibenzopyrene	Pyrene, 1-methyl-
SVOC % Match	%	N/A	NONE	-	-	-	98	97
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Dibenz(a,e)aceanthrylene	Benzo[e]pyrene
SVOC % Match	%	N/A	NONE	-	-	-	98	97
SVOCs TICs Compound Name		N/A	NONE	-	-	-	3,4:8,9-Dibenzopyrene	Naphthalene, 1,6-dimethyl-
SVOC % Match	%	N/A	NONE	-	-	-	98	96
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 2,3-dimethyl-	Naphthalene, 2,6-dimethyl-
SVOC % Match	%	N/A	NONE	-	-	-	97	96
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 1,3-dimethyl-	Naphthalene, 2,3,6-trimethyl-
SVOC % Match	%	N/A	NONE	-	-	-	97	96

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087484	2087485	2087486	2087487	2087488
Sample Reference				TP707	TP714	TP713	TP713	TP713
Sample Number				1	1	1	4	5
Depth (m)				0.60-0.60	0.50-0.50	0.55-0.55	1.10-1.10	1.40-1.60
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Phenanthrene, 1-methyl-	1(2H)-Phenanthrenone, 3,4,9,10-tetrahydro-7-methoxy-
SVOC % Match	%	N/A	NONE	-	-	-	97	96
SVOCs TICs Compound Name		N/A	NONE	-	-	-	11H-Benzo[b]fluorene	Dibenz(a,e)aceanthrylene
SVOC % Match	%	N/A	NONE	-	-	-	97	96

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	39	58
Moisture Content	%	0.01	NONE	11	9.3	17	8.6	9.0
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Amosite	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	-	Not-detected	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SCA		SSZ	SSZ	
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	6.5	7.5	7.7	8.0	7.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	1600	-	-	440
Total Sulphate as SO4	%	0.005	MCERTS	-	0.159	-	-	0.044
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.71	0.31	0.0061	0.038	0.057
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	313	-	-	56.6
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	1000	-	-	2.6
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	520	-	-	1.3
Total Sulphur	mg/kg	50	MCERTS	-	1500	-	-	190
Total Sulphur	%	0.005	MCERTS	-	0.150	-	-	0.019
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	< 0.5	-	-	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	< 0.05	-	-	< 0.05
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.030	-	0.029	0.0067	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	32	-	-	< 2.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	16	-	-	< 5.0
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
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	< 0.05	-	0.37	1.7	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.53	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	0.46	1.7	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	0.46	1.9	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	0.26	0.82	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	0.22	0.73	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.68	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.40	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.70	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.44	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.40	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-	1.77	9.93	-

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Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
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	67	-	11	5.9	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	3.1	-	0.67	0.89	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	< 0.2	< 0.2	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	-	< 1.2	< 1.2	-
Chromium (III)	mg/kg	1	NONE	26	-	20	29	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	-	20	29	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	90	-	44	20	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	-	65	19	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	51	-	17	26	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	75	-	23	32	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	31	-	66	45	-
Magnesium (water soluble)	mg/kg	5	NONE	-	56	-	-	34
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	28	-	-	17
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
o-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 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	< 8.0	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	< 10	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	< 10	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 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 > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	< 10	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10	-	-	-	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	< 10	-	-	-	-

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Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
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	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

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Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

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Project / Site name: Gould Street

Lab Sample Number				2091264	2091265	2091266	2091267	2091268
Sample Reference				TP711	TP711	TP703	TP703	TP703
Sample Number				2	4	1	2	5
Depth (m)				0.65-0.65	0.70-0.70	0.20-0.20	0.50-0.50	2.50-2.50
Date Sampled				14/11/2021	14/11/2021	14/11/2021	14/11/2021	14/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	67	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	2.6	20	24	17
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SSZ		SSZ	SSZ	SSZ
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	7.9	8.6	8.0	7.9	8.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	< 5.0	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	270	-	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	0.027	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.047	0.013	0.089	0.29	0.14
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	13.4	-	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	8.2	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	4.1	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	220	-	-	-
Total Sulphur	%	0.005	MCERTS	-	0.022	-	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	< 0.5	-	4.4	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	< 0.05	-	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.022	-	0.032	0.047	0.013
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	2.9	-	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	< 5.0	-	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	< 0.30	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	< 0.20	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	< 0.30	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	< 1.3	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	16	8.7
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	0.60	6.0	2.3
Acenaphthene	mg/kg	0.05	MCERTS	6.6	-	2.2	7.7	2.2
Fluorene	mg/kg	0.05	MCERTS	4.2	-	3.1	12	3.5
Phenanthrene	mg/kg	0.05	MCERTS	37	-	22	130	24
Anthracene	mg/kg	0.05	MCERTS	12	-	13	35	6.5
Fluoranthene	mg/kg	0.05	MCERTS	65	-	41	170	23
Pyrene	mg/kg	0.05	MCERTS	61	-	34	180	25
Benzo(a)anthracene	mg/kg	0.05	MCERTS	33	-	23	89	13
Chrysene	mg/kg	0.05	MCERTS	23	-	19	80	9.5
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	28	-	19	97	11

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	12	-	11	39	6.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	23	-	16	96	12
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	13	-	8.9	53	6.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	4.2	-	2.7	14	1.7
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	15	-	10	68	8.8
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	337	-	226	1090	164

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Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
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	44	-	40	48	12
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	-	2.7	1.8	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	-	0.5	0.8	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	0.7
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	-	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	56	-	28	23	30
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	57	-	28	24	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	490	-	82	160	49
Lead (aqua regia extractable)	mg/kg	1	MCERTS	430	-	33	140	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	0.5	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	80	-	54	48	43
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	47	-	68	53	34
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	440	-	58	190	240
Magnesium (water soluble)	mg/kg	5	NONE	-	< 5.0	-	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	< 2.5	-	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	5.5
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	5.4
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	4.8
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	15
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	10
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	-	3.4	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	-	9.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	11	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	14	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	24	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	37	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	37	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	5.5
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	5.4
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	< 0.001	0.066
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	-	1.9	21	13
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	-	18	77	34
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	120	500	72
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	190	920	79
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	39	820	12
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	330	1500	210
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	360	2300	220
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	400	2300	220

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
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	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	5.5
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	5.4
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	4.8
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	15
Styrene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	10
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	3.9
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	9.1
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	23
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	ND	ND	ND
VOC % Match	%	N/A	NONE	-	-	0	0	0
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05	16	8.7
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	< 0.1	7.6	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	< 0.1	5.4	3.8
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	0.60	6.0	2.3
Acenaphthene	mg/kg	0.05	MCERTS	-	-	2.2	7.7	2.2
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	1.4	6.0	1.5
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	3.1	12	3.5
Azobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	22	130	24
Anthracene	mg/kg	0.05	MCERTS	-	-	13	35	6.5
Carbazole	mg/kg	0.3	MCERTS	-	-	0.9	9.7	1.8
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	0.5	< 0.3	0.4
Fluoranthene	mg/kg	0.05	MCERTS	-	-	41	170	23
Pyrene	mg/kg	0.05	MCERTS	-	-	34	180	25
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	23	89	13

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	19	80	9.5
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	19	97	11
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	11	39	6.4
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	16	96	12
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	8.9	53	6.7
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	2.7	14	1.7
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	10	68	8.8

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	Benzo[e]pyrene	Phenanthrene, 2-methyl-	Naphthalene, 2,6-dimethyl-
SVOC % Match	%	N/A	NONE	-	-	98	98	97
SVOCs TICs Compound Name		N/A	NONE	-	-	Anthracene, 2-methyl-	Pyrene, 2-methyl-	Benzo[e]pyrene
SVOC % Match	%	N/A	NONE	-	-	97	98	97
SVOCs TICs Compound Name		N/A	NONE	-	-	Benzo[b]naphtho[2,1-d]thiophene	Triphenylene	Phenanthrene, 1-methyl-
SVOC % Match	%	N/A	NONE	-	-	96	98	96
SVOCs TICs Compound Name		N/A	NONE	-	-	Benz[a]anthracene, 7-methyl-	Benzo[e]pyrene	Pyrene, 1-methyl-
SVOC % Match	%	N/A	NONE	-	-	96	98	96
SVOCs TICs Compound Name		N/A	NONE	-	-	Z-11,13-Tetradecadien-1-ol acetate	Benzo[a]naphthacene	Chrysene, 1-methyl-
SVOC % Match	%	N/A	NONE	-	-	96	98	96
SVOCs TICs Compound Name		N/A	NONE	-	-	Pyrene, 1-methyl-	3,4:8,9-Dibenzopyrene	Naphthalene, 2,3-dimethyl-
SVOC % Match	%	N/A	NONE	-	-	95	98	95
SVOCs TICs Compound Name		N/A	NONE	-	-	1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	Benzo[b]naphtho[2,1-d]thiophene	Phenanthrene, 2-methyl-
SVOC % Match	%	N/A	NONE	-	-	95	97	95
SVOCs TICs Compound Name		N/A	NONE	-	-	11H-Benzo[b]fluorene	Dibenz(a,e)aceanthrylene	Dibenzo[def,mno]chrysene
SVOC % Match	%	N/A	NONE	-	-	94	97	95

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Lab Sample Number				2091269	2091270	2091271	2091272	2091273
Sample Reference				TP720	TP720	TP720	TP720	TP720
Sample Number				1	2	3	4	7
Depth (m)				0.20-0.20	0.80-0.80	0.90-0.90	1.40-1.50	1.75-1.75
Date Sampled				14/11/2021	14/11/2021	19/11/2021	19/11/2021	19/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	Dibenzofuran, 4-methyl-	Naphthalene, 1,7-dimethyl-	Dibenzo[b,e]7,8-diazabicyclo[2.2.2]octa-2,5-diene
SVOC % Match	%	N/A	NONE	-	-	93	96	93
SVOCs TICs Compound Name		N/A	NONE	-	-	Anthracene, 9-methyl-	di-p-Tolylacetylene	3,4:8,9-Dibenzopyrene
SVOC % Match	%	N/A	NONE	-	-	93	96	93

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
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	15	27	12	17	11
Total mass of sample received	kg	0.001	NONE	1.0	1.0	1.0	1.0	1.0

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

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	8.3	6.7	8.1	8.0
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Thiocyanate as SCN	mg/kg	5	NONE	-	< 5.0	< 5.0	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	15000	-	-	-	2900
Total Sulphate as SO4	%	0.005	MCERTS	1.48	-	-	-	0.288
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.11	0.54	0.14	0.56	0.61
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	108	-	-	-	610
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	22	-	-	-	36
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	11	-	-	-	18
Total Sulphur	mg/kg	50	MCERTS	8100	-	-	-	3000
Total Sulphur	%	0.005	MCERTS	0.810	-	-	-	0.298
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	< 0.5	< 0.5	-	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	< 0.05	-	-	-	< 0.05
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	0.072	0.042	0.039	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	8.9	-	-	-	7.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	-	-	-	< 5.0

Phenols by HPLC

Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	42	4.2	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	110	5.9	1.2	-
Acenaphthene	mg/kg	0.05	MCERTS	-	49	7.7	1.7	-
Fluorene	mg/kg	0.05	MCERTS	-	90	9.9	1.5	-
Phenanthrene	mg/kg	0.05	MCERTS	-	700	95	16	-
Anthracene	mg/kg	0.05	MCERTS	-	140	25	9.1	-
Fluoranthene	mg/kg	0.05	MCERTS	-	600	130	63	-
Pyrene	mg/kg	0.05	MCERTS	-	670	150	56	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	380	100	34	-
Chrysene	mg/kg	0.05	MCERTS	-	360	88	25	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	310	110	36	-

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Project / Site name: Gould Street

Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	170	43	14	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	350	120	28	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	180	61	16	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	86	24	4.4	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	280	75	17	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	4520	1050	322	-

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Project / Site name: Gould Street

Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	74	31	44	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	0.54	1.2	0.84	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.4	0.2	1.7	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	< 1.2	< 1.2	< 1.2	-
Chromium (III)	mg/kg	1	NONE	-	19	21	17	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	19	22	17	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	62	64	44	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	82	88	68	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	33	37	26	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	30	33	29	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	55	89	96	-
Magnesium (water soluble)	mg/kg	5	NONE	8.1	-	-	-	33
Magnesium (leachate equivalent)	mg/l	2.5	NONE	4.1	-	-	-	16
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	20	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	95	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	17	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	-	120	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	-	93	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	3.3	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	26	11	-	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	33	22	-	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	92	53	-	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	120	75	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	88	47	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	150	86	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	240	130	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	0.020	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	0.095	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	0.51	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	200	15	-	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	1000	140	-	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	2700	770	-	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	2100	890	-	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	210	110	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	6000	1800	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	6200	1900	-	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	6500	2100	-	-

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Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	-	20	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	95	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	17	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	120	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	-	39	< 1.0	-	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	-	93	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	87	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	150	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	< 1.0	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	Benzene, 1,3-dimethyl-	ND	-	-
VOC % Match	%	N/A	NONE	-	95	0	-	-
SVOCs								
Aniline	mg/kg	0.1	NONE	-	< 0.1	< 0.1	-	-
Phenol	mg/kg	0.2	ISO 17025	-	< 0.2	< 0.2	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	-	< 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	MCERTS	-	< 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	-	42	4.2	-	-
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	MCERTS	-	< 0.1	< 0.1	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 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	MCERTS	-	< 0.1	< 0.1	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	110	5.9	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	49	7.7	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	61	4.8	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	< 0.3	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Fluorene	mg/kg	0.05	MCERTS	-	90	9.9	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	< 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	-	700	95	-	-
Anthracene	mg/kg	0.05	MCERTS	-	140	25	-	-
Carbazole	mg/kg	0.3	MCERTS	-	62	8.6	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	50	6.3	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	600	130	-	-
Pyrene	mg/kg	0.05	MCERTS	-	670	150	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	< 0.3	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	380	100	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	360	88	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	310	110	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	170	43	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	350	120	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	180	61	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	86	24	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	280	75	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	Pyrene, 1-methyl-	Dibenz(a,e)aceanthrylene	-	-
SVOC % Match	%	N/A	NONE	-	98	98	-	-
SVOCs TICs Compound Name		N/A	NONE	-	1(2H)-Phenanthrenone, 3,4,9,10-tetrahydro-7-methoxy-	Phenanthrene, 1-methyl-	-	-
SVOC % Match	%	N/A	NONE	-	98	96	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Dibenz(a,e)aceanthrylene	1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	-	-
SVOC % Match	%	N/A	NONE	-	98	96	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 1,5-dimethyl-	Anthracene, 1-methyl-	-	-
SVOC % Match	%	N/A	NONE	-	97	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Phenanthrene, 1-methyl-	11H-Benzo[b]fluorene	-	-
SVOC % Match	%	N/A	NONE	-	97	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 1-methyl-	Pyrene, 1-methyl-	-	-
SVOC % Match	%	N/A	NONE	-	96	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 1,6-dimethyl-	1(2H)-Phenanthrenone, 3,4,9,10-tetrahydro-7-methoxy-	-	-
SVOC % Match	%	N/A	NONE	-	96	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	11H-Benzo[a]fluoren-11-one	Tetracyclo[5.3.1.1(2,6).1(3,11)]tridecane, 8-chloro-13-hydroxy-	-	-
SVOC % Match	%	N/A	NONE	-	96	95	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091453	2091454	2091455	2091456	2091457
Sample Reference				WS704	WS704	WS702	TP715	TP715
Sample Number				2	3	1	1	3
Depth (m)				0.20-0.70	0.90-0.90	0.70-0.90	0.75-0.75	0.90-0.95
Date Sampled				17/11/2021	17/11/2021	17/11/2021	17/11/2021	17/11/2021
Time Taken				0900	0900	0900	1600	1600
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	Benzo[e]pyrene	Benz[a]anthracene, 7-methyl-	-	-
SVOC % Match	%	N/A	NONE	-	96	95	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Pentaphene	Benz[e]acephenanthrylene	-	-
SVOC % Match	%	N/A	NONE	-	96	95	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	28	53	33	< 0.1
Moisture Content	%	0.01	NONE	15	11	9.6	9.3	14
Total mass of sample received	kg	0.001	NONE	1.0	1.0	0.50	1.2	1.6
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MJN	MJN		DSA	DSA
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.5	10.2	11.2	7.4	8.4
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	< 5.0	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	4300	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	0.426	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.16	0.33	0.31	0.63	0.29
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	307	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	47	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	24	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	1400	-	-
Total Sulphur	%	0.005	MCERTS	-	-	0.139	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	< 0.5	2.4	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	< 0.05	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0088	0.028	-	0.054	0.0074
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	26	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	13	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	14	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	< 0.20	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	14	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	< 0.30	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	64	< 1.0
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	29	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	3.0	0.48	-	240	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	0.71	0.70	-	65	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.55	3.1	-	57	< 0.05
Fluorene	mg/kg	0.05	MCERTS	1.2	1.4	-	110	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	7.1	25	-	580	0.86
Anthracene	mg/kg	0.05	MCERTS	1.9	6.4	-	120	0.26
Fluoranthene	mg/kg	0.05	MCERTS	5.6	71	-	450	0.55
Pyrene	mg/kg	0.05	MCERTS	6.4	65	-	460	0.55
Benzo(a)anthracene	mg/kg	0.05	MCERTS	2.8	40	-	200	0.28
Chrysene	mg/kg	0.05	MCERTS	2.8	35	-	150	0.30
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	2.5	43	-	190	< 0.05

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	1.1	17	-	42	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.4	38	-	160	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.3	18	-	89	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.39	5.3	-	29	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.5	21	-	100	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	41.3	391	-	3050	2.80

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	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	7.8	45	-	170	7.2
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	0.88	-	0.47	0.93
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	0.3	-	< 0.2	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	-	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	31	20	-	12	24
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	20	-	13	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	38	46	-	71	25
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	79	-	62	12
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	34	30	-	33	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	33	31	-	40	25
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	69	110	-	39	56
Magnesium (water soluble)	mg/kg	5	NONE	-	-	< 5.0	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	< 2.5	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	550	11
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	1200	7.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	-	-	270	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	-	-	4.7	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	-	-	16	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	-	24	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	-	48	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	< 10	-	-	72	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	-	-	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	< 10	-	-	92	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	-	-	92	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	0.55	0.011
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	1.2	0.007
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	0.78	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	3.9	-	-	370	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	8.2	-	-	490	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	20	-	-	1700	< 10
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	20	-	-	1600	< 10
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	-	-	240	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	52	-	-	4200	< 10
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	52	-	-	4400	< 10
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	52	-	-	4500	< 10

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	550	11
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	1200	7.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	33	54
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	330	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	270	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	64	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	120	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	< 1.0
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	ND	ND
VOC % Match	%	N/A	NONE	-	-	-	0	0
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	-	< 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	MCERTS	-	-	-	< 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	-	-	-	240	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	-	140	< 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	MCERTS	-	-	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	130	< 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	MCERTS	-	-	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	65	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	57	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	56	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	-	110	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 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	-	-	-	580	0.86
Anthracene	mg/kg	0.05	MCERTS	-	-	-	120	0.26
Carbazole	mg/kg	0.3	MCERTS	-	-	-	43	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	18	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	450	0.55
Pyrene	mg/kg	0.05	MCERTS	-	-	-	460	0.55
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	200	0.28

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	150	0.30
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	190	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	42	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	160	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	89	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	29	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	100	< 0.05

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	1(2H)-Phenanthrenone, 3,4,9,10-tetrahydro-7-methoxy-	1,1'-Biphenyl, 2,2',3,4,5-Pentachloro-
SVOC % Match	%	N/A	NONE	-	-	-	98	95
SVOCs TICs Compound Name		N/A	NONE	-	-	-	3,4:8,9-Dibenzopyrene	Antra-9,10-quinone, 1-(3-hydrohy-3-phenyl-1-triazenyl)-
SVOC % Match	%	N/A	NONE	-	-	-	98	93
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 2,7-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Dibenz[a,h]anthracene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 1,5-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 2,3,6-trimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Phenanthrene, 2-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Pyrene, 1-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2091458	2091459	2091460	2092486	2092487
Sample Reference				TP715	TP710	TP710	WS704	WS704
Sample Number				4	1	2	7	8
Depth (m)				1.25-1.25	0.80-0.80	0.90-0.90	1.20-1.20	1.80-1.80
Date Sampled				17/11/2021	17/11/2021	17/11/2021	22/11/2021	22/11/2021
Time Taken				1900	0900	0900	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Benzo[e]pyrene	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	1,2:7,8-Dibenzophenanthrene	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	20	21	20	12
Total mass of sample received	kg	0.001	NONE	1.2	1.2	0.50	1.2	1.2
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A		DSA			
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.5	7.8	-	-	-
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	< 5.0	-
Total Sulphate as SO4	mg/kg	50	MCERTS	560	-	-	-	-
Total Sulphate as SO4	%	0.005	MCERTS	0.056	-	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.23	2.2	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	226	-	-	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	58	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	29	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	910	-	-	-	-
Total Sulphur	%	0.005	MCERTS	0.091	-	-	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	1.0	-	< 0.5	< 0.5	25
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	0.10	-	-	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0085	0.016	-	-	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	3.7	-	-	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	-	-	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	< 0.30	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	< 0.20	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	< 0.10	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	< 0.30	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	< 1.3	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	19	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	3.3	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	5.6	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	11	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	69	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	16	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	53	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	54	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	30	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	23	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	27	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	15	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	23	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	11	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	3.8	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	13	-	-	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	374	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
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	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	1.1	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.6	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.5	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	< 1.2	-	-	-
Chromium (III)	mg/kg	1	NONE	-	30	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	30	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	51	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	100	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	41	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	35	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	82	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	53	-	-	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	26	-	-	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	68	9.9	37	< 1.0
Toluene	µg/kg	1	MCERTS	-	23	7.4	21	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	7.7	< 1.0	20	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	17	< 1.0	54	< 1.0
o-xylene	µg/kg	1	MCERTS	-	9.1	< 1.0	30	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	< 1.0	42	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	< 2.0	10	6.6	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	< 8.0	< 8.0	11	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	< 10	< 10	11	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	< 10	58	24	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	< 10	58	24	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	0.068	0.010	0.037	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	0.023	0.007	0.021	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	0.033	0.008	0.16	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	15	22	78	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	28	64	100	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	140	400	730	< 10
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	130	410	840	< 10
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	20	47	110	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	310	900	1800	< 10
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	330	940	1900	< 10
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	330	1000	1900	< 10

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
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	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	9.9	37	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	7.4	21	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	43	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	20	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	54	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	30	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	18	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	7.6	33	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	< 1.0	< 1.0
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	ND	ND	ND
VOC % Match	%	N/A	NONE	-	-	0	0	0
SVOCs								
Aniline	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	-	-	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	-	-	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	-	-	< 0.2	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	-	-	12	46	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	-	-	6.7	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	-	-	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	8.0	9.2	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	9.1	27	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	10	26	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	7.0	19	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	-	-	23	49	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	-	-	160	410	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	31	85	< 0.05
Carbazole	mg/kg	0.3	MCERTS	-	-	5.2	16	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	-	-	4.6	14	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	-	-	150	360	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	160	380	< 0.05
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	71	220	< 0.05

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Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	48	190	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	64	240	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	23	65	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	61	230	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	30	110	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	10	35	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	36	130	< 0.05

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	Dibenz(a,e)aceanthrylene	3,4:8,9-Dibenzopyrene	ND
SVOC % Match	%	N/A	NONE	-	-	99	99	0
SVOCs TICs Compound Name		N/A	NONE	-	-	Naphthalene, 1,4,6-trimethyl-	Naphthalene, 1,6,7-trimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	98	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Pyrene, 1-methyl-	11H-Benzo[b]fluorene	-
SVOC % Match	%	N/A	NONE	-	-	98	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Triphenylene	Pyrene, 1-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	98	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	1(2H)-Phenanthrenone, 3,4,9,10-tetrahydro-7-methoxy-	Triphenylene	-
SVOC % Match	%	N/A	NONE	-	-	98	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Naphthalene, 2,3,6-trimethyl-	Benzo[e]pyrene	-
SVOC % Match	%	N/A	NONE	-	-	97	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	1,2:7,8-Dibenzophenanthrene	1,2:7,8-Dibenzophenanthrene	-
SVOC % Match	%	N/A	NONE	-	-	97	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Naphthalene, 2,7-dimethyl-	Naphthalene, 2,6-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	96	97	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092488	2092489	2092490	2092491	2092492
Sample Reference				WS704	WS702	WS702	WS702	WS702
Sample Number				10	5	6	10	11
Depth (m)				2.50-2.50	1.40-1.50	1.80-1.80	3.00-3.00	3.50-3.50
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
				-	-	Anthracene, 9-methyl-	Naphthalene, 1,4-dimethyl-	-
SVOCs TICs Compound Name		N/A	NONE					
SVOC % Match	%	N/A	NONE	-	-	96	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	Benzo[b]naphtho[2,1-d]thiophene	Perylene	-
SVOC % Match	%	N/A	NONE	-	-	96	97	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	11	9.9	20	21
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.2	1.2	0.40

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

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	11.6	9.0	-	7.6
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	490	-	-	-	960
Total Sulphate as SO4	%	0.005	MCERTS	0.049	-	-	-	0.096
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.17	0.013	0.11	-	0.35
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	168	-	-	-	350
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	66	-	-	-	72
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	33	-	-	-	36
Total Sulphur	mg/kg	50	MCERTS	850	-	-	-	4100
Total Sulphur	%	0.005	MCERTS	0.085	-	-	-	0.406
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	25	-	-	-	0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	2.48	-	-	-	0.05
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0084	0.0038	0.018	-	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	5.7	-	-	-	2.2
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	-	-	-	< 5.0

Phenols by HPLC

Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	2.7	-	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	2.0	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	20	-	-
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	5.2	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	0.30	25	-	-
Pyrene	mg/kg	0.05	MCERTS	-	0.31	22	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	10	-	-
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	8.3	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	9.4	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	3.4	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	7.3	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	4.1	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	1.3	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	5.1	-	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	< 0.80	126	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
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	-	5.0	13	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	0.67	1.0	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.3	< 0.2	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	< 1.2	< 1.2	-	-
Chromium (III)	mg/kg	1	NONE	-	23	24	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	23	24	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	13	59	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	15	58	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	18	27	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	23	33	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	45	67	-	-
Magnesium (water soluble)	mg/kg	5	NONE	42	-	-	-	70
Magnesium (leachate equivalent)	mg/l	2.5	NONE	21	-	-	-	35
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	< 1.0	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	< 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 >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	< 10	-	< 10	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	< 8.4	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	< 10	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	< 10	-	< 10	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	< 1.0	-	17	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	< 2.0	-	79	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	< 10	-	270	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	< 10	-	240	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	< 8.4	-	31	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	< 10	-	600	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	< 10	-	630	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	< 10	-	630	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
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	1	ISO 17025	-	-	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	ND	-
VOC % Match	%	N/A	NONE	-	-	-	0	-
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	MCERTS	-	-	-	< 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	MCERTS	-	-	-	< 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	-	-	-	10	-
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	MCERTS	-	-	-	< 0.1	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
2-Methylnaphthalene	mg/kg	0.1	NONE	-	-	-	8.1	-
2-Chloronaphthalene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Dimethylphthalate	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	-	-	-	< 0.1	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	1.9	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	15	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	6.2	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	16	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	< 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	-	-	-	89	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	25	-
Carbazole	mg/kg	0.3	MCERTS	-	-	-	3.9	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	2.5	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	73	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	78	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	< 0.3	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	39	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	34	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	34	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	13	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	32	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	16	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	5.6	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	20	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	1(2H)-Phenanthrenone, 3,4,9,10-tetrahydro-7-methoxy-	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Chrysene, 6-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	1,2:7,8-Dibenzophenanthrene	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Dibenz(a,e)aceanthrylene	-
SVOC % Match	%	N/A	NONE	-	-	-	98	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 2,6-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 1,3-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 2,3,6-trimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Pyrene, 1-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092493	2092494	2092495	2092496	2092497
Sample Reference				WS702	MPBH708	WS703	WS703	WS703
Sample Number				12	1	1	4	5
Depth (m)				3.70-3.70	0.50	0.80-0.80	1.40-1.40	1.70-1.70
Date Sampled				22/11/2021	22/11/2021	22/11/2021	22/11/2021	22/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	2H-1,4-Benzodiazepin-2-one, 7-bromo-1,3-dihydro-1,3-dimethyl-5-[2-pyridyl]-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 1-ethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
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	14	14	16	13
Total mass of sample received	kg	0.001	NONE	1.1	1.1	0.60	0.80	1.2
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	BPA	DSA			
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.7	8.8	9.0	-	9.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	390	-	380
Total Sulphate as SO4	%	0.005	MCERTS	-	-	0.039	-	0.038
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.18	0.16	0.057	-	0.063
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	56.7	-	63.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	14	-	21
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	6.9	-	11
Total Sulphur	mg/kg	50	MCERTS	-	-	970	-	1000
Total Sulphur	%	0.005	MCERTS	-	-	0.097	-	0.102
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	0.9	< 0.5	0.9
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	0.09	-	0.09
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.020	0.0082	-	-	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	2.6	-	2.7
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	< 5.0	-	< 5.0
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	1.0	< 0.05	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	2.3	< 0.05	-	-	-
Fluorene	mg/kg	0.05	MCERTS	2.9	< 0.05	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	25	< 0.05	-	-	-
Anthracene	mg/kg	0.05	MCERTS	8.8	< 0.05	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	29	< 0.05	-	-	-
Pyrene	mg/kg	0.05	MCERTS	29	< 0.05	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	18	< 0.05	-	-	-
Chrysene	mg/kg	0.05	MCERTS	13	< 0.05	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	17	< 0.05	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	4.5	< 0.05	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	14	< 0.05	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	6.7	< 0.05	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	2.5	< 0.05	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	8.2	< 0.05	-	-	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	182	< 0.80	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	7.1	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.1	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.3	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	-	-	-
Chromium (III)	mg/kg	1	NONE	24	29	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	30	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42	24	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	190	14	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	6.0	< 0.3	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	31	34	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	30	30	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	79	69	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	36	-	26
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	18	-	13
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	< 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	-	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	-	< 10	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	< 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	-	-	-	3.4	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	-	16	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	-	29	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	-	49	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	-	49	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	-	49	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2092498	2092499	2096017	2096018	2096019
Sample Reference				WS701	WS701	MPBH703	MPBH703	MPBH704
Sample Number				1	4	6	3	18
Depth (m)				0.50-0.50	0.90-0.90	4.20-4.20	1.40-1.40	6.20-6.20
Date Sampled				22/11/2021	22/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				None Supplied	None Supplied	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	53	< 0.1
Moisture Content	%	0.01	NONE	8.7	16	17	11	14
Total mass of sample received	kg	0.001	NONE	1.2	0.50	1.1	1.2	1.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	DSA	DSA		DSA	
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	10.0	10.7	-	11.1	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.12	0.10	-	0.052	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	3.5	-	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0037	0.0034	-	0.0031	0.0058
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	-	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	-	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	-
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	0.36	< 0.05	-	0.60	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	0.52	< 0.05	-	0.45	-
Pyrene	mg/kg	0.05	MCERTS	0.56	< 0.05	-	0.52	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.35	< 0.05	-	0.25	-
Chrysene	mg/kg	0.05	MCERTS	0.24	< 0.05	-	0.24	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.31	< 0.05	-	< 0.05	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.17	< 0.05	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.35	< 0.05	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 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	< 0.05	< 0.05	-	< 0.05	-
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	2.86	< 0.80	-	2.06	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	4.1	4.4	-	5.2	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.77	0.88	-	0.92	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.4	-	0.3	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	-	0.3	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	< 1.2	-	< 1.2	-
Chromium (III)	mg/kg	1	NONE	23	28	-	30	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	28	-	30	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	8.8	12	-	16	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	11	11	-	16	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	20	22	-	23	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	24	28	-	32	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	48	-	42	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 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	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 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 > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	< 10	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096020	2096021	2096022	2096023	2096024
Sample Reference				MPBH706	MPBH704	MPBH704	MPBH710	MPBH703
Sample Number				1	1	4	2	17
Depth (m)				0.50-0.50	0.50-0.50	1.20-1.20	0.50-0.50	17.30-17.30
Date Sampled				25/11/2021	25/11/2021	25/11/2021	25/11/2021	25/11/2021
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	18	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	17	17	14	11
Total mass of sample received	kg	0.001	NONE	1.0	0.80	0.80	0.70	0.70
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A		SFS	SFS		
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	8.2	8.6	8.8	-
Free Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	-	290	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	0.029	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.035	0.11	0.038	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	37.9	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-	5.1	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	2.6	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	620	-
Total Sulphur	%	0.005	MCERTS	-	-	-	0.062	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	-	1.1	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	-	0.11	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	< 0.0010	0.035	0.012	-	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	-	2.3	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	-	< 5.0	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	0.79	0.66	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	0.15	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	0.39	0.63	-	-
Fluorene	mg/kg	0.05	MCERTS	-	0.41	0.51	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	3.3	4.7	-	-
Anthracene	mg/kg	0.05	MCERTS	-	0.97	1.4	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	4.7	5.9	-	-
Pyrene	mg/kg	0.05	MCERTS	-	4.9	6.7	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	3.1	5.1	-	-
Chrysene	mg/kg	0.05	MCERTS	-	2.6	3.4	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	3.3	5.6	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	1.6	2.7	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	2.9	6.1	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	1.7	3.8	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	0.47	1.0	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	1.8	4.6	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	32.9	52.8	-	-

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Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	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	-	33	13	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	1.5	1.1	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.3	0.3	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	< 1.2	< 1.2	-	-
Chromium (III)	mg/kg	1	NONE	-	32	28	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	32	29	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	200	34	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	190	44	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	0.6	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	55	33	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	50	31	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	220	79	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	21	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	11	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
o-xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	-	-	-	-	16
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	-	-	-	-	370
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	-	-	750
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	-	-	-	-	260
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	-	-	1000
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	-	-	21
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	-	-	1400
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	-	-	1400
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	-	-	-	-	7.3
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	-	-	-	-	160
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	-	-	470
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	-	-	-	-	190
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	-	-	9.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	-	-	820
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	-	-	830
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	-	-	2200

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Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

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Project / Site name: Gould Street

Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2096025	2101306	2101307	2101308	2101309
Sample Reference				MPBH703	TP712	TP712	TP712	TP716
Sample Number				18	1	2	5	1
Depth (m)				18.70-18.70	0.20-0.20	1.30-1.30	1.80-1.80	0.50-0.50
Date Sampled				25/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				0900	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Project / Site name: Gould Street

Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	38	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	15	10	6.1	15
Total mass of sample received	kg	0.001	NONE	0.70	0.30	0.90	0.50	0.90
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SFS		SFS	SFS	SFS
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.2	-	8.7	8.3	8.8
Free Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	-	-	< 5.0
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.053	-	0.085	0.33	0.084
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	-	-	-
Total Sulphur	%	0.005	MCERTS	-	-	-	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	0.9	1.8	-	-	5.3
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	-	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.017	-	0.010	0.063	0.0061
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	-	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	-	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	-	< 0.10
Resorcinol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	-	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	< 0.30	< 0.30	-	-	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	< 0.20	< 0.20	-	-	< 0.20
2-Isopropylphenol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	-	< 0.10
Phenol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	-	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	-	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	< 0.30	< 0.30	-	-	< 0.30
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	8.8	< 1.0
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	< 1.3	< 1.3	-	-	< 1.3
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	5.3	-	0.31	1300	1.8
Acenaphthylene	mg/kg	0.05	MCERTS	1.9	-	0.30	89	0.44
Acenaphthene	mg/kg	0.05	MCERTS	4.7	-	0.33	590	1.1
Fluorene	mg/kg	0.05	MCERTS	4.3	-	0.32	690	1.3
Phenanthrene	mg/kg	0.05	MCERTS	27	-	4.0	3300	7.9
Anthracene	mg/kg	0.05	MCERTS	7.3	-	0.80	760	1.5
Fluoranthene	mg/kg	0.05	MCERTS	26	-	4.7	1900	4.5
Pyrene	mg/kg	0.05	MCERTS	30	-	5.1	2100	5.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	21	-	2.9	950	2.3
Chrysene	mg/kg	0.05	MCERTS	16	-	2.7	850	2.3
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	22	-	2.8	650	2.0

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	9.7	-	1.8	240	0.77
Benzo(a)pyrene	mg/kg	0.05	MCERTS	24	-	3.0	600	1.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	13	-	1.5	220	0.87
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.5	-	0.51	82	0.28
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	16	-	1.9	250	1.0
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	231	-	32.9	14600	35.4

Analytical Report Number: 21-23857
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Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
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	21	-	12	9.1	6.0
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	-	0.65	0.50	1.0
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	-	0.4	0.4	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	-	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	28	-	16	63	27
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	16	63	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42	-	25	24	23
Lead (aqua regia extractable)	mg/kg	1	MCERTS	44	-	110	20	11
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	4.0	-	< 0.3	1.1	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	38	-	16	39	31
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	32	-	24	23	29
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	-	73	68	57
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	51	< 1.0	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	23	< 1.0	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	20	< 1.0	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	14	< 1.0	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	14	< 1.0	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	25	-	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	< 10	< 10	25	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	< 10	< 10	25	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	< 10	25	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	0.050	< 0.001	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	0.023	< 0.001	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	0.054	< 0.001	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	16	< 1.0	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	33	< 2.0	4.3	-	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	67	< 10	17	-	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	120	< 10	52	-	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	23	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	240	< 10	74	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	240	< 10	97	-	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	240	< 10	120	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
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	1	ISO 17025	< 1.0	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	50	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	23	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	20	< 1.0	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	14	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
o-Xylene	µg/kg	1	MCERTS	14	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	6.1	< 1.0	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	ND	ND	-	-	-
VOC % Match	%	N/A	NONE	0	0	-	-	-
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	-	-
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	-	-	-
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	-
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Hexachloroethane	mg/kg	0.05	MCERTS	< 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	MCERTS	< 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	5.3	7.8	-	-	-
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	MCERTS	< 0.1	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
2-Methylnaphthalene	mg/kg	0.1	NONE	2.1	< 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	MCERTS	< 0.1	< 0.1	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	1.9	0.36	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	4.7	< 0.05	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	2.3	< 0.2	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Fluorene	mg/kg	0.05	MCERTS	4.3	< 0.05	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	< 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	27	0.44	-	-	-
Anthracene	mg/kg	0.05	MCERTS	7.3	< 0.05	-	-	-
Carbazole	mg/kg	0.3	MCERTS	1.9	< 0.3	-	-	-
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	26	0.30	-	-	-
Pyrene	mg/kg	0.05	MCERTS	30	0.33	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	21	< 0.05	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	16	< 0.05	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	22	< 0.05	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	9.7	< 0.05	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	24	< 0.05	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	13	< 0.05	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	3.5	< 0.05	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	16	< 0.05	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	Triphenylene	Naphthalene, 1-methyl-	-	-	-
SVOC % Match	%	N/A	NONE	98	94	-	-	-
SVOCs TICs Compound Name		N/A	NONE	Triphenylene, 2-methyl-	Azulene, 4,6,8-trimethyl-	-	-	-
SVOC % Match	%	N/A	NONE	98	94	-	-	-
SVOCs TICs Compound Name		N/A	NONE	Benzo[e]pyrene	-	-	-	-
SVOC % Match	%	N/A	NONE	98	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	3,4:8,9-Dibenzopyrene	-	-	-	-
SVOC % Match	%	N/A	NONE	98	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 2,3,6-trimethyl-	-	-	-	-
SVOC % Match	%	N/A	NONE	97	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	Dibenzo[def,mno]chrysene	-	-	-	-
SVOC % Match	%	N/A	NONE	97	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	1,2:4,5-Dibenzopyrene	-	-	-	-
SVOC % Match	%	N/A	NONE	97	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 2,6-dimethyl-	-	-	-	-
SVOC % Match	%	N/A	NONE	96	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101310	2101311	2101312	2101313	2101314
Sample Reference				TP716	TP716	TP701	TP722	TP722
Sample Number				3	5	2	2	3
Depth (m)				1.10-1.10	1.80-1.80	0.40-0.40	1.00-1.00	1.70-1.70
Date Sampled				29/11/2021	29/11/2021	29/11/2021	29/11/2021	29/11/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 1,3-dimethyl-	-	-	-	-
SVOC % Match	%	N/A	NONE	96	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	9H-Fluorene, 2-methyl-	-	-	-	-
SVOC % Match	%	N/A	NONE	96	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	34	< 0.1	< 0.1	42	41
Moisture Content	%	0.01	NONE	10	11	11	8.6	8.6
Total mass of sample received	kg	0.001	NONE	0.80	0.80	0.80	0.30	0.70
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	Not-detected
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS			EC
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	10.1	9.0	9.0	-	9.7
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Thiocyanate as SCN	mg/kg	5	NONE	-	< 5.0	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	70	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	0.007	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.13	0.0054	0.0066	-	0.15
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	6.6	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	3.3	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	1.6	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	< 50	-	-
Total Sulphur	%	0.005	MCERTS	-	-	< 0.005	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	< 0.5	< 0.5	-	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	< 0.05	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0038	< 0.0010	-	-	0.0050
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	< 2.0	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	< 5.0	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	< 0.10	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	< 0.10	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	< 0.30	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	< 0.20	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	< 0.10	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	< 0.10	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	< 0.10	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	< 0.30	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	< 1.3	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	4.3
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	1.5
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	2.0
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	2.7
Phenanthrene	mg/kg	0.05	MCERTS	0.53	< 0.05	-	-	20
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	3.7
Fluoranthene	mg/kg	0.05	MCERTS	0.42	< 0.05	-	-	17
Pyrene	mg/kg	0.05	MCERTS	0.53	< 0.05	-	-	18
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.26	< 0.05	-	-	7.8
Chrysene	mg/kg	0.05	MCERTS	0.18	< 0.05	-	-	8.0
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	7.5

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	3.5
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	7.0
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	3.4
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	1.0
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	4.1
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	1.92	< 0.80	-	-	112

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
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	4.2	1.2	-	-	8.0
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.84	0.66	-	-	0.78
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	1.2	MCERTS	< 1.2	< 1.2	-	-	< 1.2
Chromium (III)	mg/kg	1	NONE	27	6.0	-	-	27
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	6.0	-	-	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	10	4.3	-	-	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	14	2.6	-	-	26
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	27	6.7	-	-	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	29	9.9	-	-	28
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	17	-	-	40
Magnesium (water soluble)	mg/kg	5	NONE	-	-	9.0	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	4.5	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	< 10	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	< 10	-	11	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	< 10	< 10	-	17	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10	< 10	-	17	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	< 10	< 10	-	17	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
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	1	ISO 17025	-	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	ND	-	-	-
VOC % Match	%	N/A	NONE	-	0	-	-	-
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	MCERTS	-	< 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	MCERTS	-	< 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	-	< 0.05	-	-	-
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	MCERTS	-	< 0.1	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	< 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	MCERTS	-	< 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	MCERTS	-	< 0.2	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	< 0.2	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	< 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	MCERTS	-	< 0.2	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	< 0.3	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	< 0.3	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	< 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	-	-	-
SVOCs TICs								
SVOCs TICs Compound Name		N/A	NONE	-	8-Bromo-6-(4-chlorophenyl)-1,2,3,4-tetrahydro-1-methyl-1,5-benzodiazocin-2-one	-	-	-
SVOC % Match	%	N/A	NONE	-	98	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 1,5-dimethyl-	-	-	-
SVOC % Match	%	N/A	NONE	-	95	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Thiazole, 4-(4-chlorophenylamino)-2-(2-methylimidazolo[1,2-a]pyridin-3-yl)-	-	-	-
SVOC % Match	%	N/A	NONE	-	95	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 1-methyl-	-	-	-
SVOC % Match	%	N/A	NONE	-	94	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Benzaldehyde, 2-bromo-, (2,4-dinitrophenyl)hydrazone	-	-	-
SVOC % Match	%	N/A	NONE	-	94	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	19-Norpregna-1,3,5(10),17(20)-tetraene-20-carboxylic acid, 3-hydroxy-, methyl ester	-	-	-
SVOC % Match	%	N/A	NONE	-	93	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	4-Piperidineacetic acid, 5-ethylidene-2-[3-(2-hydroxyethyl)-1H-indol-2-yl]-.alpha.-methylene-, methyl ester, [2S-(2.alpha.,4.alpha.,5E)]-	-	-	-
SVOC % Match	%	N/A	NONE	-	92	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 2-methyl-	-	-	-
SVOC % Match	%	N/A	NONE	-	91	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2101315	2101316	2101317	2105678	2105679
Sample Reference				MPBH707	MPBH706	MPBH706	MPBH705	MPBH709
Sample Number				1	19	20	2	1
Depth (m)				0.50-0.50	16.80-16.80	17.00-17.00	0.60-0.60	0.80-0.80
Date Sampled				29/11/2021	30/11/2021	30/11/2021	01/12/2021	01/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	Tungsten,benzyltri carbonyl-.pi.-cyclopentadienyl	-	-	-
SVOC % Match	%	N/A	NONE	-	91	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	Dichromium tetraacetate	-	-	-
SVOC % Match	%	N/A	NONE	-	91	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	38	< 0.1	< 0.1	61	< 0.1
Moisture Content	%	0.01	NONE	8.1	14	14	7.2	13
Total mass of sample received	kg	0.001	NONE	0.70	0.30	0.80	0.80	0.60
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	EC				
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	8.8	-	8.5	-	-
Free Cyanide	mg/kg	1	MCERTS	< 1.0	-	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	< 5.0	< 5.0	-	< 5.0	< 5.0
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	540	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	-	0.054	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.16	-	0.14	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	137	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	50	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	25	-	-
Total Sulphur	mg/kg	50	MCERTS	-	-	960	-	-
Total Sulphur	%	0.005	MCERTS	-	-	0.096	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	< 0.5	2.3	1.0	1.3	1.8
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	0.10	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0049	-	-	-	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	4.1	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	< 5.0	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	< 0.10	< 0.10
Resorcinol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	< 0.10	< 0.10
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	< 0.30	< 0.30	-	< 0.30	< 0.30
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	< 0.20	< 0.20	-	< 0.20	< 0.20
2-Isopropylphenol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	< 0.10	< 0.10
Phenol	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	< 0.10	< 0.10
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	< 0.10	< 0.10	-	< 0.10	< 0.10
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	< 0.30	< 0.30	-	< 0.30	< 0.30
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	< 1.3	< 1.3	-	< 1.3	< 1.3
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	0.54	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	0.22	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	1.7	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	0.35	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	1.7	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	1.7	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.83	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	0.83	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.71	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.36	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.65	-	-	-	-
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	MCERTS	9.64	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
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	5.0	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.68	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	< 1.2	-	-	-	-
Chromium (III)	mg/kg	1	NONE	23	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	10	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	40	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	26	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	37	-	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	53	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	26	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	10	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	12	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	22	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	16	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	2.1	< 1.0	-	1.8	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	9.0	< 2.0	-	11	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	44	< 8.0	-	40	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	110	< 8.0	-	300	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	150	< 10	-	340	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	20	< 8.4	-	36	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	160	< 10	-	360	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	180	< 10	-	390	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	0.010	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	0.012	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	0.038	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	-	44	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	5.8	< 2.0	-	170	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	22	< 10	-	1100	< 10
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	36	< 10	-	970	< 10
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	-	81	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	64	< 10	-	2300	< 10
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	64	< 10	-	2400	< 10
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	250	< 10	-	2700	< 10

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Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
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	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	10	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	12	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	22	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	-	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	16	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	< 1.0

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Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	< 1.0	< 1.0
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	ND	ND	-	ND	ND
VOC % Match	%	N/A	NONE	0	0	-	0	0
SVOCs								
Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	-	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	-	< 0.2	< 0.2
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	0.54	0.27	-	37	0.50
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	-	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	-	38	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	45	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	9.9	< 0.05
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	32	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	0.22	< 0.05	-	40	< 0.05
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	1.7	0.52	-	410	0.92
Anthracene	mg/kg	0.05	MCERTS	0.35	< 0.05	-	100	< 0.05
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	22	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	11	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	1.7	0.53	-	370	0.68
Pyrene	mg/kg	0.05	MCERTS	1.7	0.49	-	310	0.60
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	-	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.83	0.34	-	130	0.27

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	0.83	0.27	-	93	0.27
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.71	0.22	-	100	0.24
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.36	0.22	-	39	0.15
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.65	0.25	-	87	0.24
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	69	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	16	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	75	< 0.05

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 1,6-dimethyl-	Naphthalene, 1,2-dimethyl-	-	Naphthalene, 1,4-dimethyl-	ND
SVOC % Match	%	N/A	NONE	95	95	-	97	0
SVOCs TICs Compound Name		N/A	NONE	-	Naphthalene, 1-methyl-	-	Dibenzothiophene	-
SVOC % Match	%	N/A	NONE	-	91	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Phenanthrene, 1-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	9,10-Dimethylanthracene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Triphenylene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Benzo[e]pyrene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	3,4:8,9-Dibenzopyrene	-
SVOC % Match	%	N/A	NONE	-	-	-	97	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Naphthalene, 1,6-dimethyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105680	2105681	2105682	2105683	2105684
Sample Reference				MPBH709	MPBH704	MPBH704	MPBH711	MPBH711
Sample Number				3	4	22	3	4
Depth (m)				3.80-3.80	4.80-4.80	6.20-6.20	3.70-3.70	4.80-4.80
Date Sampled				01/12/2021	01/12/2021	01/12/2021	02/12/2021	02/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Anthracene, 1-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	Pyrene, 1-methyl-	-
SVOC % Match	%	N/A	NONE	-	-	-	96	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

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Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	62	< 0.1	16	53	52
Moisture Content	%	0.01	NONE	7.5	13	14	9.0	10
Total mass of sample received	kg	0.001	NONE	0.70	0.40	0.30	0.40	1.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A					
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	10.9	8.7	-	8.9	-
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	7900	350	-	100	-
Total Sulphate as SO4	%	0.005	MCERTS	0.789	0.035	-	0.010	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	1.7	0.056	-	0.012	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	1680	56.4	-	12.0	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	88	35	-	4.3	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	44	17	-	2.2	-
Total Sulphur	mg/kg	50	MCERTS	4700	940	-	< 50	-
Total Sulphur	%	0.005	MCERTS	0.467	0.094	-	< 0.005	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	0.7	1.3	-	< 0.5	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	0.07	0.13	-	< 0.05	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	0.0013	0.0031
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	4.1	< 2.0	-	< 2.0	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	-	< 5.0	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

Total PAH

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
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	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	-	-
Chromium (III)	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	< 5.0	21	-	7.1	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	< 2.5	10	-	3.6	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
o-xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	< 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	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	< 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 > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	< 8.4	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	< 10	-	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	< 10	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
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	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2105685	2105686	2105687	2105688	2108646
Sample Reference				MPBH711	MPBH711	MPBH707	MPBH707	MPBH709
Sample Number				13	14	17	19	29
Depth (m)				4.00-4.00	6.80-6.80	16.50-16.50	16.47-16.47	16.60-16.60
Date Sampled				02/12/2021	02/12/2021	02/12/2021	02/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	78	68	< 0.1	78
Moisture Content	%	0.01	NONE	13	11	11	14	9.6
Total mass of sample received	kg	0.001	NONE	0.40	1.0	1.0	0.90	0.90
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A					
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	7.9	8.5	-	-
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	63	70	-	-
Total Sulphate as SO4	%	0.005	MCERTS	-	0.006	0.007	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.0082	0.019	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	8.2	18.8	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	2.9	3.1	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	1.5	1.6	-	-
Total Sulphur	mg/kg	50	MCERTS	-	< 50	< 50	-	-
Total Sulphur	%	0.005	MCERTS	-	< 0.005	< 0.005	-	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	< 0.5	< 0.5	-	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	< 0.05	< 0.05	-	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	< 0.0010
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	< 2.0	< 2.0	-	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	< 5.0	< 5.0	-	-
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

Total PAH

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
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	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	-	-
Chromium (III)	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	5.8	6.7	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	2.9	3.4	-	-
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	< 10	-	-	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4	-	-	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	< 10	-	-	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10	-	-	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	-	-	3.5	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0	-	-	19	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	-	-	150	< 10
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	< 10	-	-	190	15
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4	-	-	36	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	< 10	-	-	360	25
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10	-	-	390	25
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	< 10	-	-	390	25

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
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	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108647	2108648	2108649	2108650	2108651
Sample Reference				MPBH715	MPBH709	MPBH711	MPBH713	MPBH711
Sample Number				10	28	23	3	24
Depth (m)				2.50-2.50	16.50-16.50	18.10-18.10	0.60-0.60	18.30-18.30
Date Sampled				03/12/2021	06/12/2021	06/12/2021	06/12/2021	06/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	100	< 0.1
Moisture Content	%	0.01	NONE	9.8	15	14	0.55	11
Total mass of sample received	kg	0.001	NONE	0.90	1.0	1.0	1.0	1.0
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A					
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	8.8	-	7.0
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	550	-	290
Total Sulphate as SO4	%	0.005	MCERTS	-	-	0.055	-	0.029
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	0.076	-	0.089
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	76.3	-	89.3
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	35	-	3.2
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	18	-	1.6
Total Sulphur	mg/kg	50	MCERTS	-	-	700	-	98
Total Sulphur	%	0.005	MCERTS	-	-	0.070	-	0.010
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	0.5	-	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	0.05	-	< 0.05
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-	-	-	-	0.0014
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	< 2.0	-	< 2.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	< 5.0	-	< 5.0
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

Total PAH

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
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	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	-	-
Chromium (III)	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	44	-	17
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	22	-	8.6
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	< 1.0	12	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH_CU_1D_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH_CU_1D_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH_CU_1D_AL}$	mg/kg	8	MCERTS	69	< 8.0	-	< 8.0	-
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	69	< 10	-	< 10	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	43	< 8.4	-	< 8.4	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	74	< 10	-	< 10	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	120	< 10	-	< 10	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	0.012	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12 $_{EH_CU_1D_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16 $_{EH_CU_1D_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	24	< 10	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35 $_{EH_CU_1D_AR}$	mg/kg	10	MCERTS	110	< 10	-	< 10	-
TPH-CWG - Aromatic > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	87	< 8.4	-	< 8.4	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	140	< 10	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	220	< 10	-	< 10	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	340	< 10	-	< 10	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
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	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2108652	2114919	2114920	2114921	2114922
Sample Reference				MPBH715	MPBH705	MPBH705	MPBH713	MPBH713
Sample Number				2	4	6	23	24
Depth (m)				0.50-0.60	2.50-2.50	4.50-4.50	16.70-16.70	18.20-18.20
Date Sampled				03/12/2021	13/12/2021	13/12/2021	09/12/2021	09/12/2021
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	-	-	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	-	-	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	-	-	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	19	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	13	8.4	14	12
Total mass of sample received	kg	0.001	NONE	1.0	1.2	1.2	1.2	1.2
Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A					
General Inorganics								
pH - Automated	pH Units	N/A	MCERTS	-	-	-	8.9	8.5
Free Cyanide	mg/kg	1	MCERTS	-	-	-	-	-
Thiocyanate as SCN	mg/kg	5	NONE	-	-	-	-	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-	-	-	450	110
Total Sulphate as SO4	%	0.005	MCERTS	-	-	-	0.045	0.011
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	0.10	0.043
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	104	42.7
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-	3.7	< 1.0
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	-	1.8	< 0.5
Total Sulphur	mg/kg	50	MCERTS	-	-	-	700	< 50
Total Sulphur	%	0.005	MCERTS	-	-	-	0.070	< 0.005
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-	-	-	< 0.5	< 0.5
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.0012	-	-	-	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-	-	-	15	< 2.0
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-	-	-	7.3	< 5.0
Phenols by HPLC								
Catechol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Resorcinol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-	-	-	-	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Phenol	mg/kg	0.1	ISO 17025	-	-	-	-	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-	-	-	-	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-	-	-	-	-
Total Phenols								
Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-	-	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-	-	-	-	-
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

Total PAH

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-	-	-	-	-
Chromium (III)	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	-	42	7.9
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	-	21	3.9
Monoaromatics & Oxygenates								
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	1	MCERTS	-	-	-	-	-
o-xylene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
Petroleum Hydrocarbons								
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	-	-	-	-	-
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 >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	-	-	-	-	-
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 > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	-	-	-	-	-
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
VOCs TICs								
VOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
VOC % Match	%	N/A	NONE	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-	-	-	-	-
Dibenzofuran	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-	-	-	-	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-	-	-	-	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Azobenzene	mg/kg	0.3	MCERTS	-	-	-	-	-
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	MCERTS	-	-	-	-	-
Anthraquinone	mg/kg	0.3	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
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	-	-	-	-	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2114923	2120745	2120746	2120747	2120748
Sample Reference				MPBH715	MPBH701	MPBH701	MPBH701	MPBH702
Sample Number				27	2	1	4	19
Depth (m)				16.60-16.60	1.50-1.50	1.00-1.00	2.50-2.50	21.60-21.60
Date Sampled				09/12/2021	16/12/2021	16/12/2021	16/12/2021	16/12/2021
Time Taken				None Supplied	0900	0900	0900	0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-
SVOCs TICs Compound Name		N/A	NONE	-	-	-	-	-
SVOC % Match	%	N/A	NONE	-	-	-	-	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 081	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 105	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 114	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 118	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 123	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 126	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 156	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 157	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 167	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 169	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-
PCB Congener 189	mg/kg	0.001	NONE	-	< 0.001	< 0.001	-	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-	< 0.012	< 0.012	-	-

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Stone Content	%	0.1	NONE	< 0.1
Moisture Content	%	0.01	NONE	10
Total mass of sample received	kg	0.001	NONE	0.40

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	-
Asbestos in Soil	Type	N/A	ISO 17025	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-
Asbestos Quantification Total	%	0.001	ISO 17025	-
Asbestos Analyst ID	N/A	N/A	N/A	

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-
Free Cyanide	mg/kg	1	MCERTS	-
Thiocyanate as SCN	mg/kg	5	NONE	-
Total Sulphate as SO4	mg/kg	50	MCERTS	-
Total Sulphate as SO4	%	0.005	MCERTS	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-
Total Sulphur	mg/kg	50	MCERTS	-
Total Sulphur	%	0.005	MCERTS	-
Ammoniacal Nitrogen as NH4	mg/kg	0.5	MCERTS	-
Ammonium as NH4 (10:1 leachate equivalent)	mg/l	0.05	MCERTS	-
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	-
Water Soluble Nitrate (2:1) as NO3	mg/kg	2	NONE	-
Water Soluble Nitrate (2:1) as NO3 (leachate equivalent)	mg/l	5	NONE	-

Phenols by HPLC

Catechol	mg/kg	0.1	ISO 17025	-
Resorcinol	mg/kg	0.1	ISO 17025	-
Cresols (o-, m-, p-)	mg/kg	0.3	ISO 17025	-
Total Naphthols (sum of 1- and 2- Naphthol)	mg/kg	0.2	ISO 17025	-
2-Isopropylphenol	mg/kg	0.1	ISO 17025	-
Phenol	mg/kg	0.1	ISO 17025	-
Trimethylphenol (2,3,5-)	mg/kg	0.1	ISO 17025	-
Total Xylenols and Ethylphenols	mg/kg	0.3	ISO 17025	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-
Total Phenols (HPLC)	mg/kg	1.3	ISO 17025	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Phenanthrene	mg/kg	0.05	MCERTS	-
Anthracene	mg/kg	0.05	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
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	-

Total PAH

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Heavy Metals / Metalloids				
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-
Chromium (hexavalent)	mg/kg	1.2	MCERTS	-
Chromium (III)	mg/kg	1	NONE	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-
Magnesium (water soluble)	mg/kg	5	NONE	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-
Monoaromatics & Oxygenates				
Benzene	µg/kg	1	MCERTS	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0
Petroleum Hydrocarbons				
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS_1D_AL}$	mg/kg	0.001	MCERTS	< 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	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH_CU_1D_AL}$	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH_CU_1D_AL}$	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH_CU+HS_1D_AL}$	mg/kg	10	MCERTS	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH_CU+HS_1D_AL}$	mg/kg	10	NONE	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS_1D_AR}$	mg/kg	0.001	MCERTS	< 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 > EC35 - EC44 $_{EH_CU_1D_AR}$	mg/kg	8.4	NONE	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH_CU+HS_1D_AR}$	mg/kg	10	MCERTS	< 10
TPH-CWG - Aromatic (EC5 - EC44) $_{EH_CU+HS_1D_AR}$	mg/kg	10	NONE	< 10
TPH Total C5 - C44 $_{EH_CU+HS_1D_TOTAL}$	mg/kg	10	NONE	< 10

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
VOCs				
Chloromethane	µg/kg	1	ISO 17025	-
Chloroethane	µg/kg	1	NONE	-
Bromomethane	µg/kg	1	ISO 17025	-
Vinyl Chloride	µg/kg	1	NONE	-
Trichlorofluoromethane	µg/kg	1	NONE	-
1,1-Dichloroethene	µg/kg	1	NONE	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-
Trichloromethane	µg/kg	1	MCERTS	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-
Benzene	µg/kg	1	MCERTS	-
Tetrachloromethane	µg/kg	1	MCERTS	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-
Trichloroethene	µg/kg	1	MCERTS	-
Dibromomethane	µg/kg	1	MCERTS	-
Bromodichloromethane	µg/kg	1	MCERTS	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-
Toluene	µg/kg	1	MCERTS	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-
Dibromochloromethane	µg/kg	1	ISO 17025	-
Tetrachloroethene	µg/kg	1	NONE	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-
Chlorobenzene	µg/kg	1	MCERTS	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-
Ethylbenzene	µg/kg	1	MCERTS	-
p & m-Xylene	µg/kg	1	MCERTS	-
Styrene	µg/kg	1	MCERTS	-
Tribromomethane	µg/kg	1	NONE	-
o-Xylene	µg/kg	1	MCERTS	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-
Isopropylbenzene	µg/kg	1	MCERTS	-
Bromobenzene	µg/kg	1	MCERTS	-
n-Propylbenzene	µg/kg	1	ISO 17025	-
2-Chlorotoluene	µg/kg	1	MCERTS	-
4-Chlorotoluene	µg/kg	1	MCERTS	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-
tert-Butylbenzene	µg/kg	1	MCERTS	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-
sec-Butylbenzene	µg/kg	1	MCERTS	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-
Butylbenzene	µg/kg	1	MCERTS	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	-
VOC % Match	%	N/A	NONE	-

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	MCERTS	-
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	MCERTS	-
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	MCERTS	-
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	-
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	MCERTS	-
Acenaphthylene	mg/kg	0.05	MCERTS	-
Acenaphthene	mg/kg	0.05	MCERTS	-
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	-
Dibenzofuran	mg/kg	0.2	MCERTS	-
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	-
Diethyl phthalate	mg/kg	0.2	MCERTS	-
4-Nitroaniline	mg/kg	0.2	MCERTS	-
Fluorene	mg/kg	0.05	MCERTS	-
Azobenzene	mg/kg	0.3	MCERTS	-
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	MCERTS	-
Anthraquinone	mg/kg	0.3	MCERTS	-
Fluoranthene	mg/kg	0.05	MCERTS	-
Pyrene	mg/kg	0.05	MCERTS	-
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Chrysene	mg/kg	0.05	MCERTS	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-
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	-

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-

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Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2120749
Sample Reference				MPBH702
Sample Number				26
Depth (m)				19.80-19.80
Date Sampled				16/12/2021
Time Taken				0900
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-
SVOCs TICs Compound Name		N/A	NONE	-
SVOC % Match	%	N/A	NONE	-

PCBs

PCB Congener 077	mg/kg	0.001	NONE	-
PCB Congener 081	mg/kg	0.001	NONE	-
PCB Congener 105	mg/kg	0.001	NONE	-
PCB Congener 114	mg/kg	0.001	NONE	-
PCB Congener 118	mg/kg	0.001	NONE	-
PCB Congener 123	mg/kg	0.001	NONE	-
PCB Congener 126	mg/kg	0.001	NONE	-
PCB Congener 156	mg/kg	0.001	NONE	-
PCB Congener 157	mg/kg	0.001	NONE	-
PCB Congener 167	mg/kg	0.001	NONE	-
PCB Congener 169	mg/kg	0.001	NONE	-
PCB Congener 189	mg/kg	0.001	NONE	-

Total PCBs – WHO12

Total PCBs	mg/kg	0.012	NONE	-

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

Combined Report - **Gould Street C21353**
Project / Site name: **Gould Street**
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

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

Quantitative Analysis

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

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

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

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
2087478	MPBH703A	0.20-0.40	122	Chrysotile	**Chrysotile**	< 0.001	**< 0.001**
2087481	TP704	0.90-1.10	110	Loose Fibrous Debris	**Chrysotile**	0.013	**0.013**
2091264	TP711	0.65-0.65	125	Loose Fibres	**Amosite**	< 0.001	**< 0.001**
2091454	WS704	0.90-0.90	178	Loose Fibres	**Amosite**	< 0.001	**< 0.001**
2091456	TP715	0.75-0.75	151	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**
2092498	WS701	0.50-0.50	128	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**

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

Analytical Report Number: 21-23857
Project / Site name: Gould Street

Lab Sample Number				2087479
Sample Reference				MPBH703A
Sample Number				2
Depth (m)				0.30-0.30
Date Sampled				16/11/2021
Time Taken				None Supplied
Analytical Parameter (Bulk Analysis)	**Units**	**Limit of detection**	**Accreditation Status**	
Asbestos Identification	Type	N/A	ISO 17025	No Asbestos Detected

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

Analytical Report Number : 21-23857
Project / Site name: Gould Street

* 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 *
2087478	MPBH703A	1	0.20-0.40	Brown clay and loam with stones and vegetation.
2087480	TP708	1	0.40-0.40	Brown loam and gravel.
2087481	TP704	3	0.90-1.10	Brown loam and gravel with tar.
2087482	TP704	5	1.15-1.15	Brown loam and gravel.
2087483	TP704	4	1.05-1.05	Brown loam and gravel.
2087484	TP707	1	0.60-0.60	Brown clay and sand with gravel.
2087485	TP714	1	0.50-0.50	Brown clay and sand with gravel.
2087486	TP713	1	0.55-0.55	Brown loam and gravel.
2087487	TP713	4	1.10-1.10	Brown clay and loam.
2087488	TP713	5	1.40-1.60	Brown clay with oil / petroleum.
2091264	TP711	2	0.65-0.65	Brown clay and gravel with clinker.
2091265	TP711	4	0.70-0.70	Brown clay and gravel with clinker.
2091266	TP703	1	0.20-0.20	Brown loam with vegetation and gravel
2091267	TP703	2	0.50-0.50	Brown clay and loam with gravel and stones.
2091268	TP703	5	2.50-2.50	Brown clay and loam with vegetation and stones.
2091269	TP720	1	0.20-0.20	Brown loam and sand with vegetation and gravel.
2091270	TP720	2	0.80-0.80	Brown clay with stones and vegetation.
2091271	TP720	3	0.90-0.90	Brown clay and gravel with clinker.
2091272	TP720	4	1.40-1.50	Brown clay and gravel with clinker.
2091273	TP720	7	1.75-1.75	Brown clay.
2091453	WS704	2	0.20-0.70	Brown gravelly loam.
2091454	WS704	3	0.90-0.90	Brown clay and gravel with clinker.
2091455	WS702	1	0.70-0.90	Brown loam and sand with gravel and brick.
2091456	TP715	1	0.75-0.75	Brown clay and gravel with clinker.
2091457	TP715	3	0.90-0.95	Brown clay and gravel with clinker.
2091458	TP715	4	1.25-1.25	Brown clay and sand.
2091459	TP710	1	0.80-0.80	Brown gravely loam with clinker and brick.
2091460	TP710	2	0.90-0.90	Brown gravely loam with clinker and brick.
2092486	WS704	7	1.20-1.20	Grey clay and gravel with stones and tar.
2092487	WS704	8	1.80-1.80	Brown clay and sand with gravel.
2092488	WS704	10	2.50-2.50	Brown clay with gravel.
2092489	WS702	5	1.40-1.50	Brown clay and sand with gravel.
2092490	WS702	6	1.80-1.80	Brown clay and sand with gravel.
2092491	WS702	10	3.00-3.00	Brown clay and sand with vegetation and gravel
2092492	WS702	11	3.50-3.50	Brown clay.
2092493	WS702	12	3.70-3.70	Brown clay.
2092494	MPBH708	1	0.5	Brown clay and sand with gravel.
2092495	WS703	1	0.80-0.80	Brown sand with rubble and brick.
2092496	WS703	4	1.40-1.40	Brown clay and sand with clinker.
2092497	WS703	5	1.70-1.70	Brown clay and sand with gravel.
2092498	WS701	1	0.50-0.50	Brown clay and sand with gravel.
2092499	WS701	4	0.90-0.90	Brown clay with gravel.
2096017	MPBH703	6	4.20-4.20	Brown clay.
2096018	MPBH703	3	1.40-1.40	Brown loam and clay with gravel and brick.
2096019	MPBH704	18	6.20-6.20	Brown clay.
2096020	MPBH706	1	0.50-0.50	Brown loam and clay with gravel.
2096021	MPBH704	1	0.50-0.50	Brown loam and sand with gravel.
2096022	MPBH704	4	1.20-1.20	Brown clay.
2096023	MPBH710	2	0.50-0.50	Brown loam and clay with gravel and stones.
2096024	MPBH703	17	17.30-17.30	Brown clay and sand with gravel.
2096025	MPBH703	18	18.70-18.70	Brown sandy clay with stones.
2101306	TP712	1	0.20-0.20	Brown loam with gravel and vegetation.
2101307	TP712	2	1.30-1.30	Brown clay and loam with gravel.
2101308	TP712	5	1.80-1.80	Brown clay.
2101309	TP716	1	0.50-0.50	Brown loam and sand with gravel.
2101310	TP716	3	1.10-1.10	Brown clay and loam.
2101311	TP716	5	1.80-1.80	Brown clay.
2101312	TP701	2	0.40-0.40	Brown sand with rubble and stones.
2101313	TP722	2	1.00-1.00	Black tar with gravel.**
2101314	TP722	3	1.70-1.70	Brown clay.
2101315	MPBH707	1	0.50-0.50	Brown clay and sand with stones.
2101316	MPBH706	19	16.80-16.80	Brown sand.

Analytical Report Number : 21-23857
Project / Site name: Gould Street

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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 *
2101317	MPBH706	20	17.00-17.00	Brown sand.
2105678	MPBH705	2	0.60-0.60	Brown clay and sand with gravel and stones.
2105679	MPBH709	1	0.80-0.80	Brown clay and sand with stones and brick.
2105680	MPBH709	3	3.80-3.80	Brown clay and sand with stones and rubble.
2105681	MPBH704	4	4.80-4.80	Brown clay with gravel.
2105682	MPBH704	22	6.20-6.20	Brown clay with vegetation.
2105683	MPBH711	3	3.70-3.70	Black rubble with tar and gravel.**
2105684	MPBH711	4	4.80-4.80	Brown clay with gravel.
2105685	MPBH711	13	4.00-4.00	Black rubble with gravel and tar.**
2105686	MPBH711	14	6.80-6.80	Brown clay and sand with gravel.
2105687	MPBH707	17	16.50-16.50	Brown sandy clay with stones.
2105688	MPBH707	19	16.47-16.47	Brown clay and sand with gravel and stones.
2108646	MPBH709	29	16.60-16.60	Brown clay and sand with stones.
2108647	MPBH715	10	2.50-2.50	Brown clay and sand with gravel.
2108648	MPBH709	28	16.50-16.50	Brown clay and sand with stones.
2108649	MPBH711	23	18.10-18.10	Brown clay and sand with stones.
2108650	MPBH713	3	0.60-0.60	Brown clay and sand with gravel.
2108651	MPBH711	24	18.30-18.30	Brown clay and sand with stones.
2108652	MPBH715	2	0.50-0.60	Brown clay and sand with gravel.
2114919	MPBH705	4	2.50-2.50	Brown clay and sand with gravel.
2114920	MPBH705	6	4.50-4.50	Brown clay with gravel.
2114921	MPBH713	23	16.70-16.70	Non Soil**
2114922	MPBH713	24	18.20-18.20	Brown sandy clay.
2114923	MPBH715	27	16.60-16.60	Brown sand.
2120745	MPBH701	2	1.50-1.50	Brown clay.
2120746	MPBH701	1	1.00-1.00	Brown loam and sand with gravel and brick.
2120747	MPBH701	4	2.50-2.50	Brown clay.
2120748	MPBH702	19	21.60-21.60	Brown sand.
2120749	MPBH702	26	19.80-19.80	Brown sand.

** Non MCERTS Matrix

Analytical Report Number : 21-23857
Project / Site name: Gould Street

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
Asbestos identification in Bulks	Asbestos Identification in bulk material with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	W	ISO 17025
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Phenols, speciated, in soil, by HPLC	Determination of speciated phenols by HPLC.	In house method based on Blue Book Method.	L030-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
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	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
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
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
Nitrate, water soluble, 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	D	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS

Analytical Report Number : 21-23857
Project / Site name: Gould Street

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
Thiocyanate in soil	Determination of thiocyanate in soil by extraction in water followed by acidification followed by addition of ferric nitrate followed by discrete analyser (spectrophotometer).	In-house method	L082-PL	D	NONE
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-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 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
Tentatively identified compounds (SVOC) in soil	Determination of semi-volatile organic compounds total ion count in soil by extraction with dichloromethane and hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L064-PL	D	NONE
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
Tentatively identified compounds (VOC) in soil	Determination of volatile organic compounds total ion count in soil by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073-PL	W	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Ammonium as NH4 in soil	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method, 10:1 water extraction.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
PCBs WHO 12 in soil	Determination of PCBs (WHO-12 Congeners) by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
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 : 21-23857
Project / Site name: Gould Street

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 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 (leachate equivalent)	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	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 21-23857
Project / Site name: Gould Street

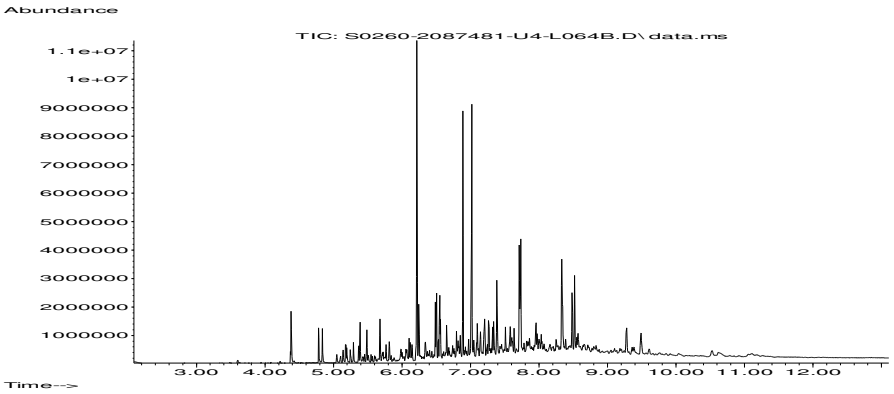
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Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

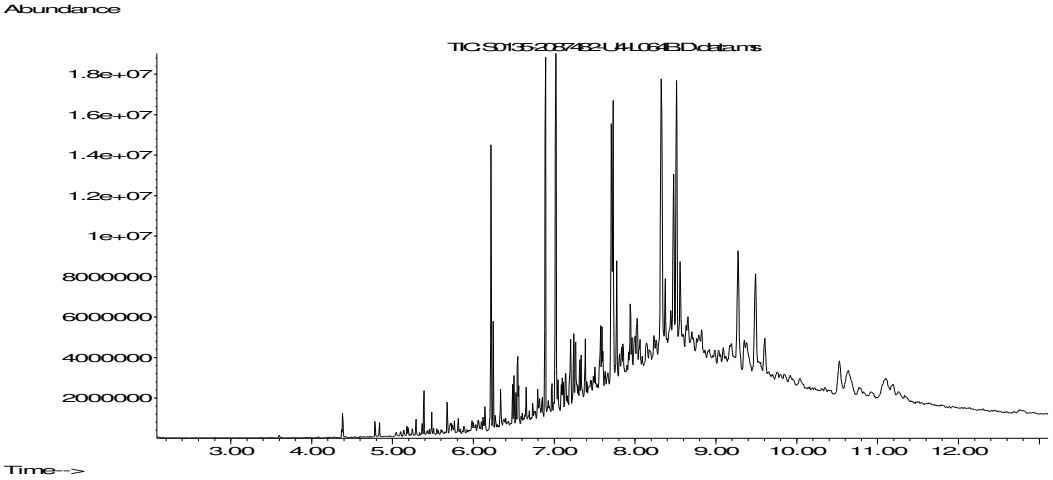
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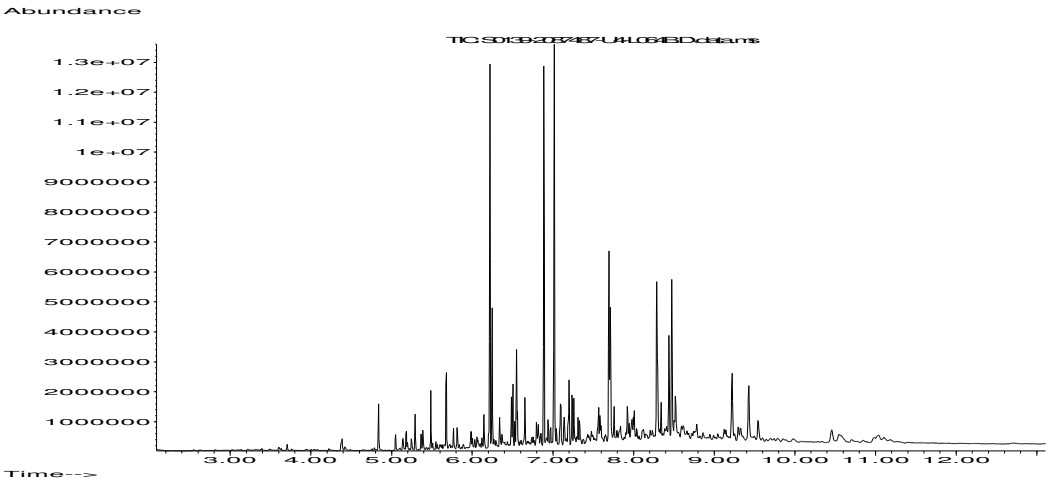
Information in Support of Analytical Results

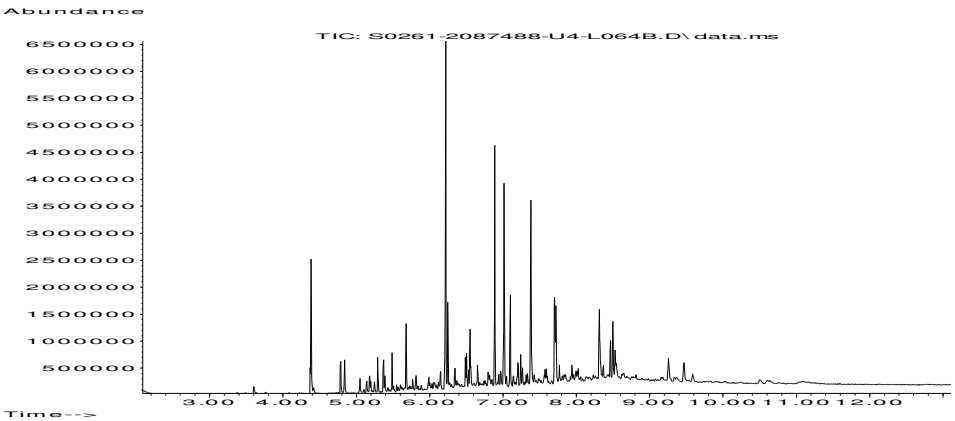
List of HWOL Acronyms and Operators

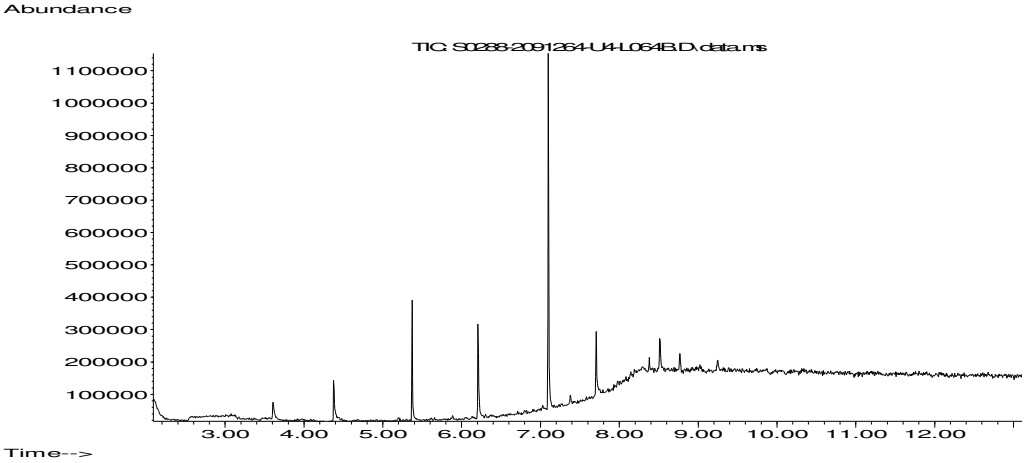
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column 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

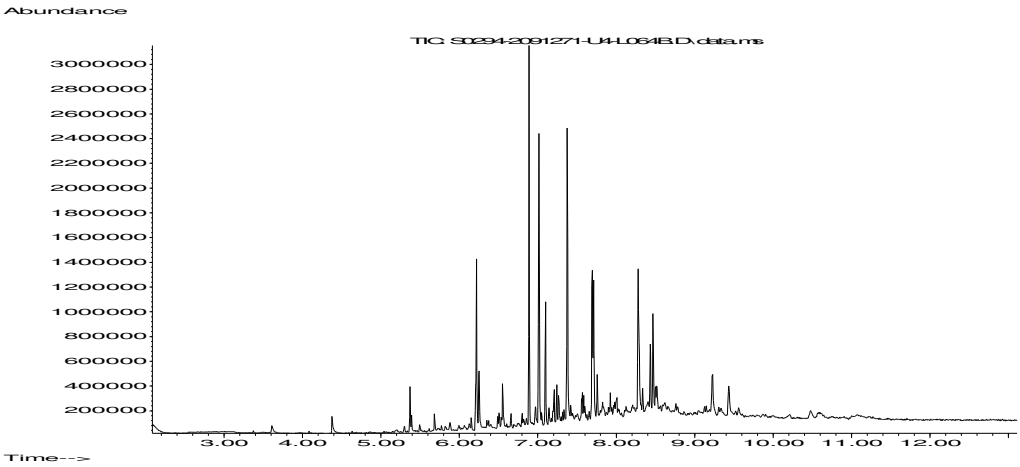

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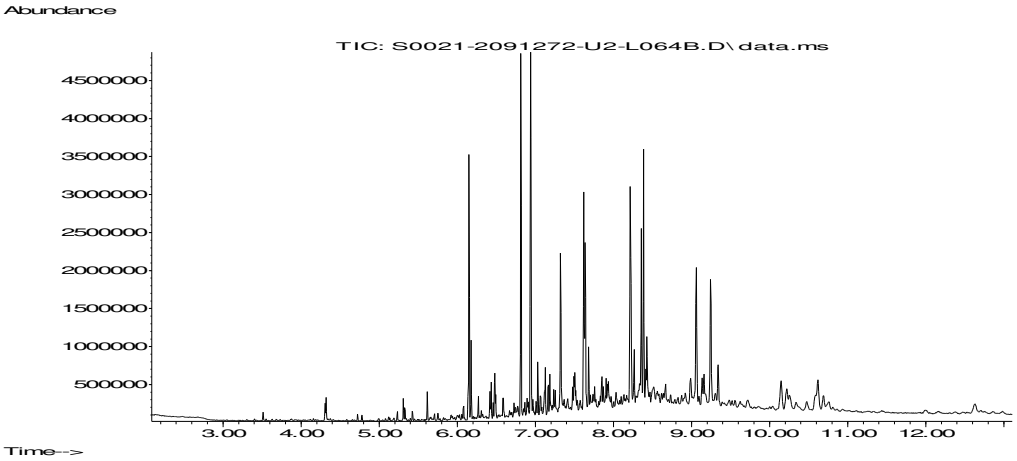

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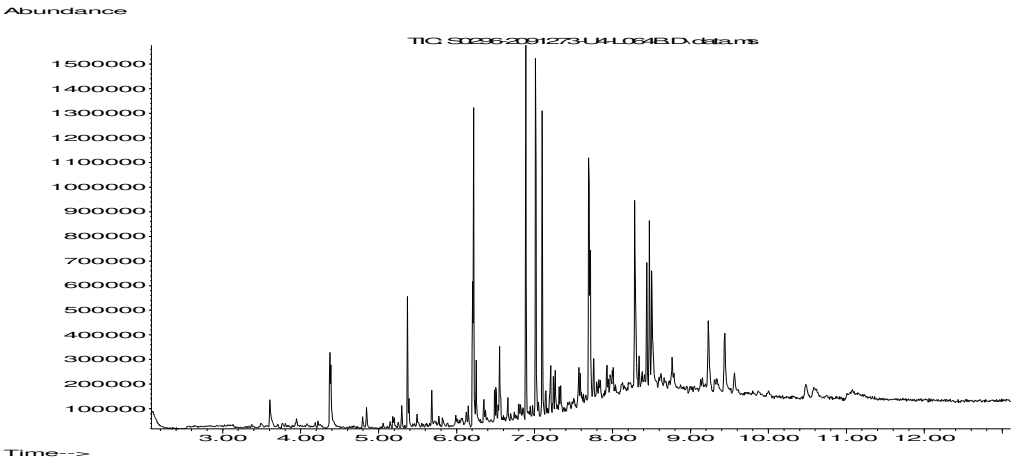

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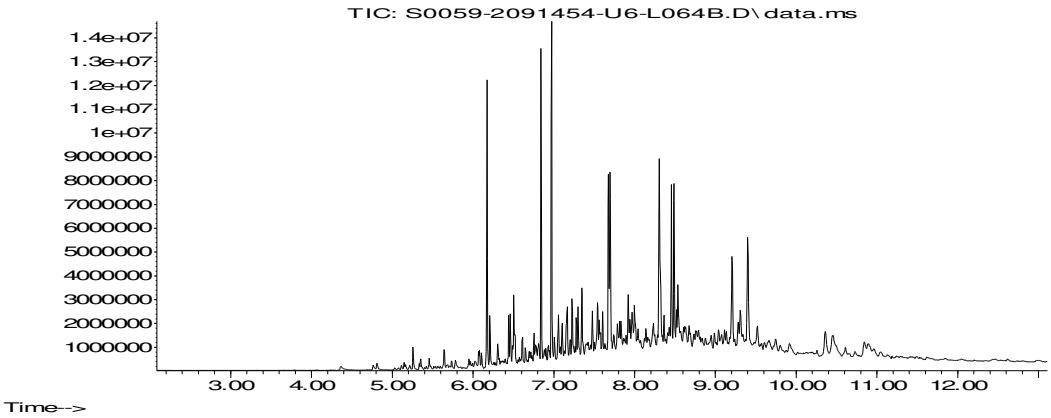

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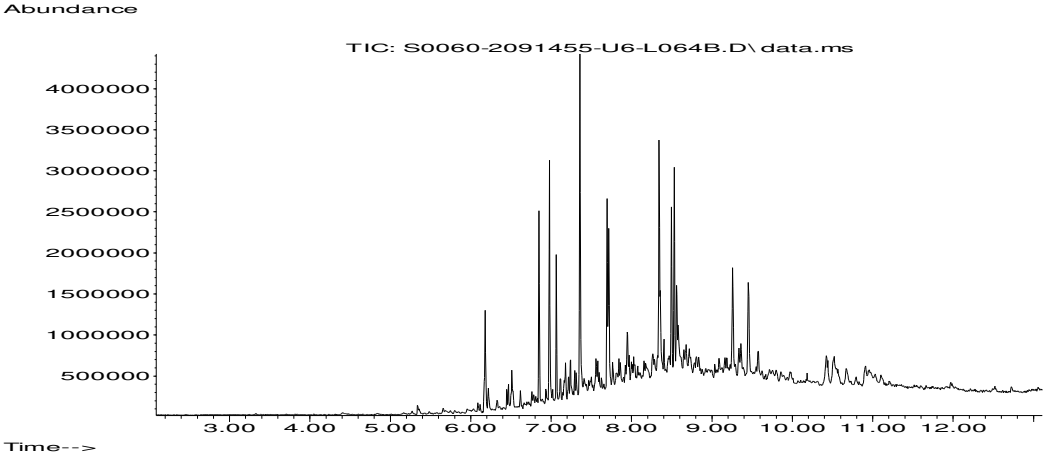

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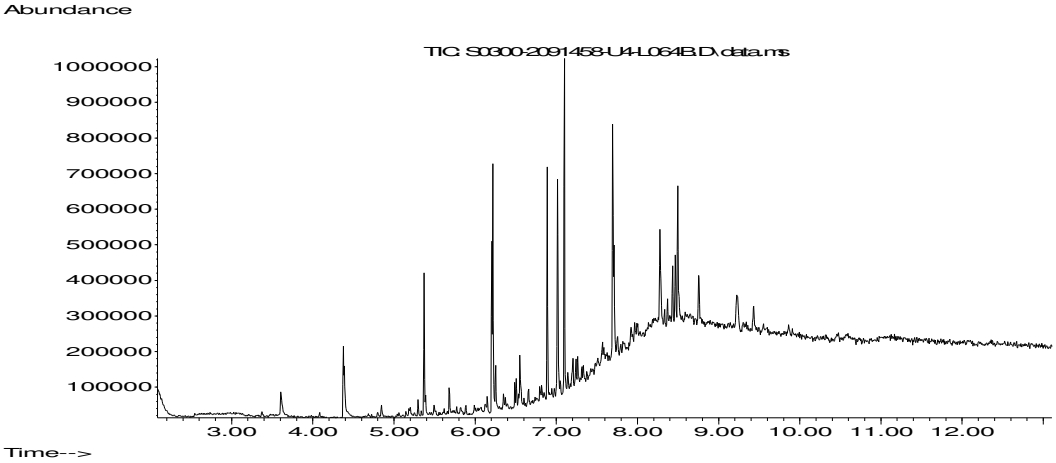

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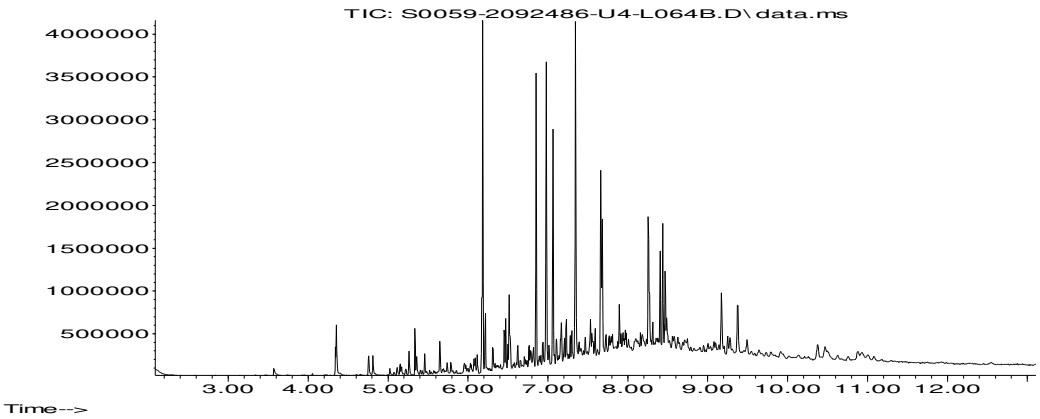

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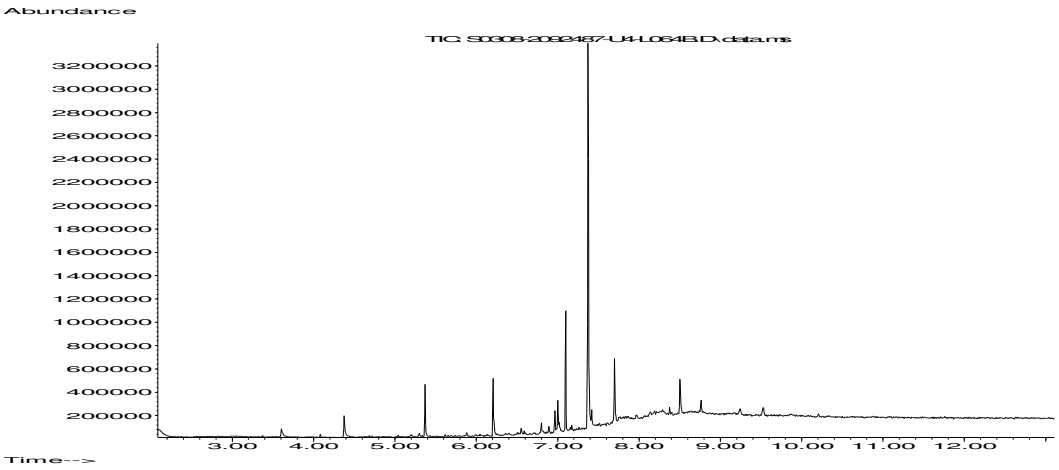

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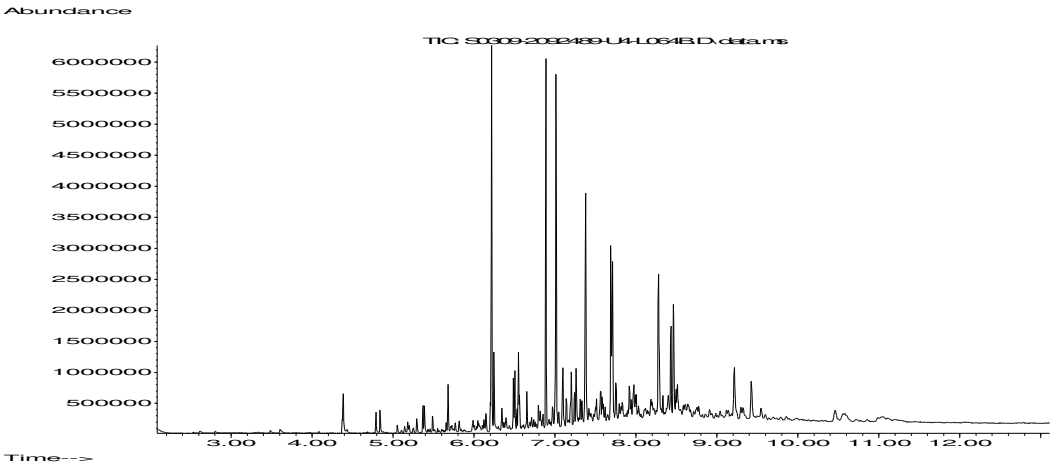

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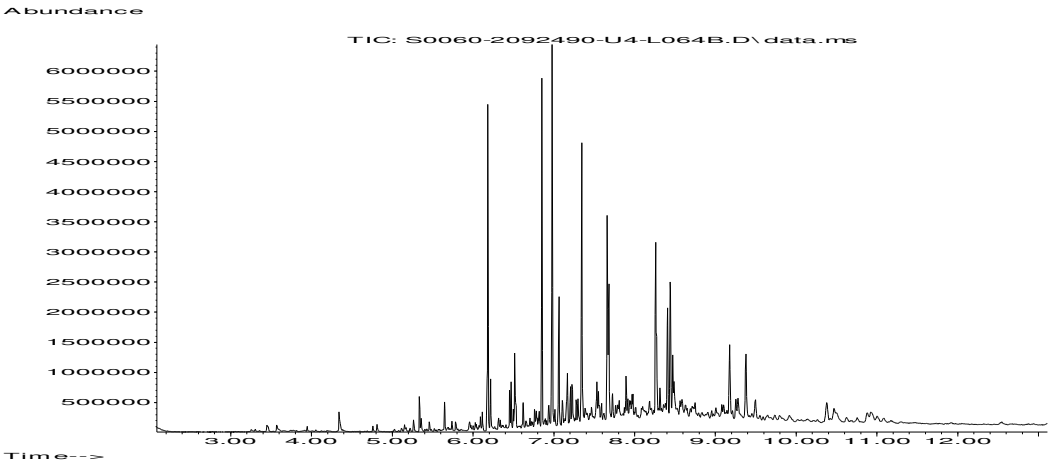

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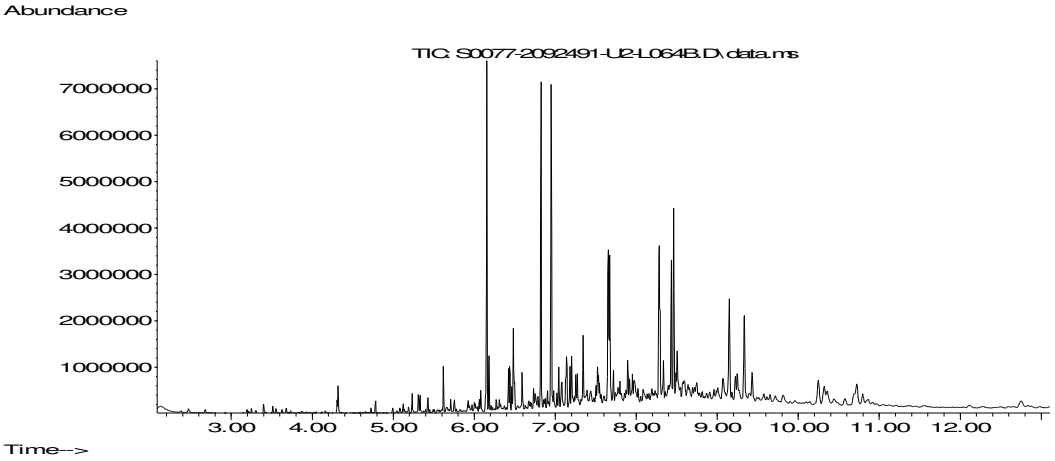

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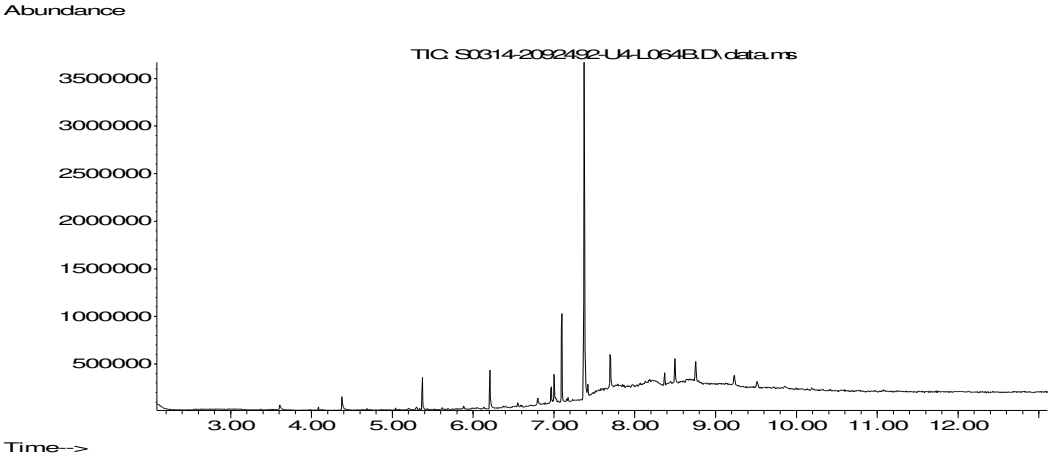

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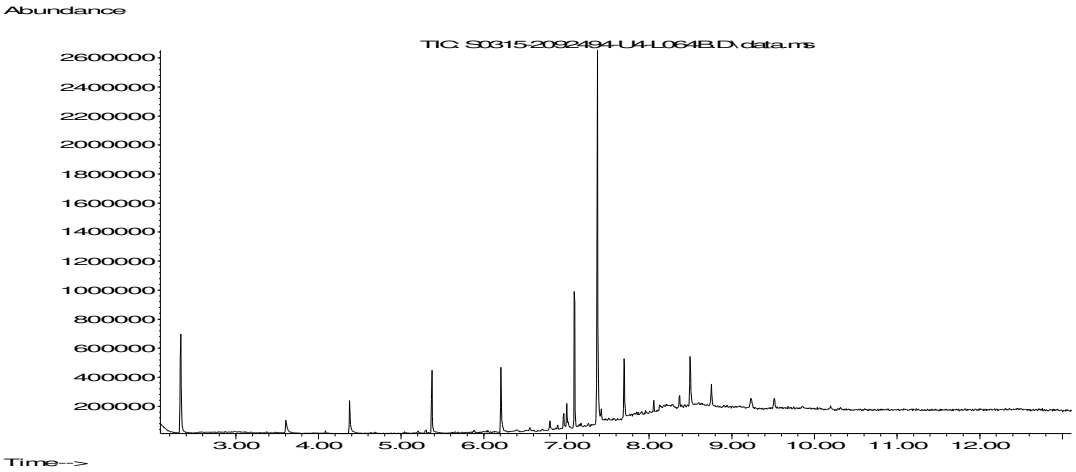

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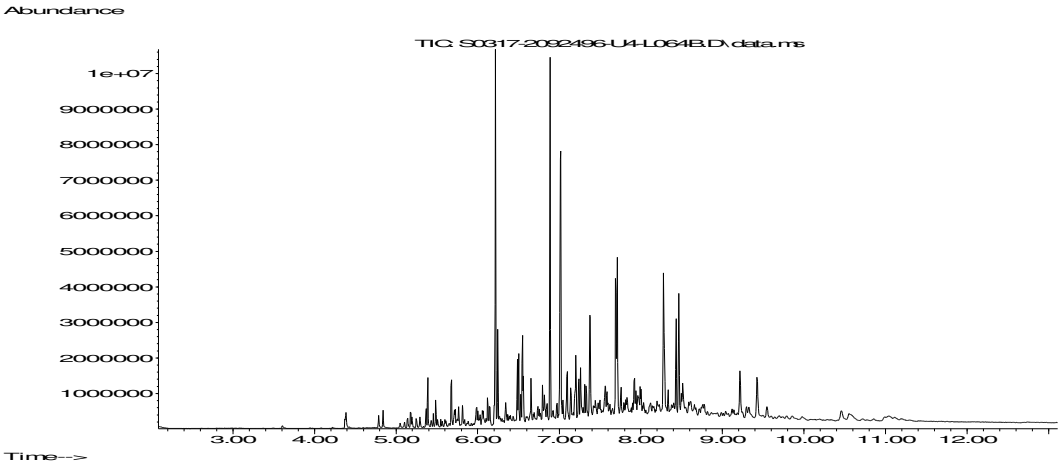

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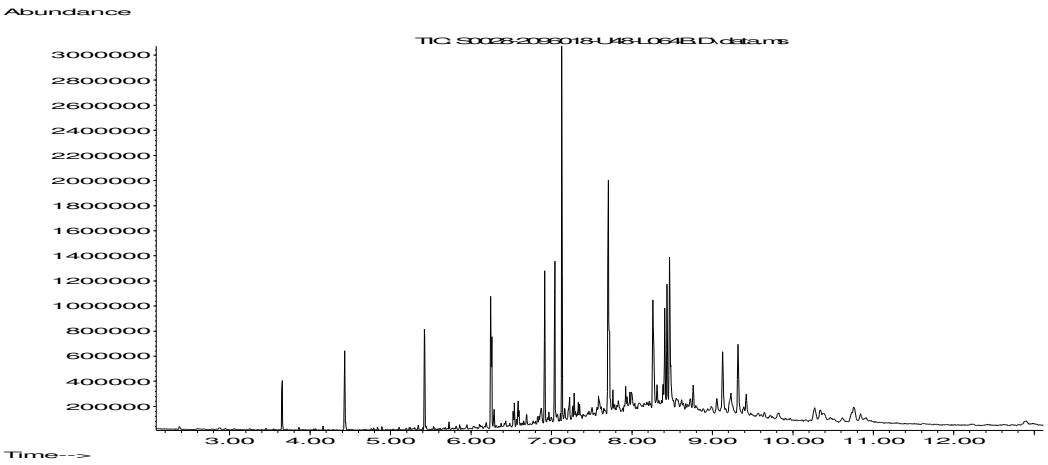

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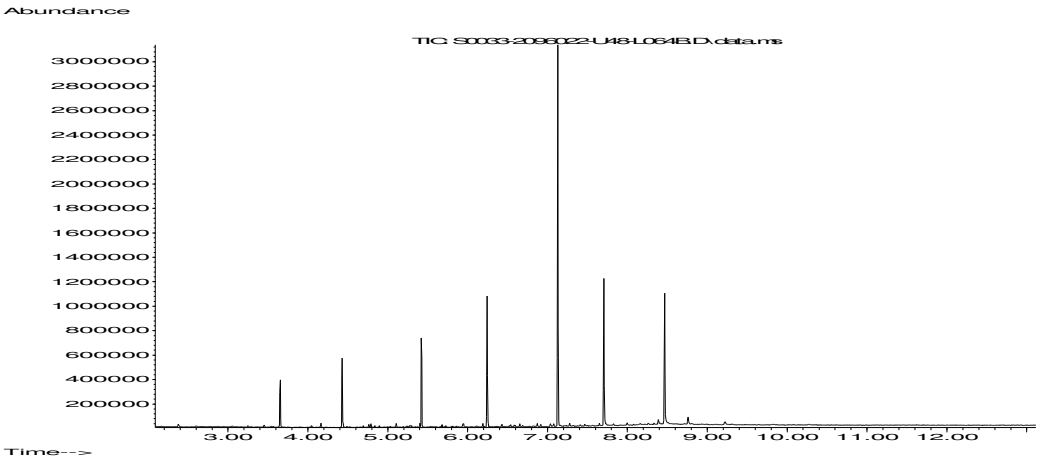

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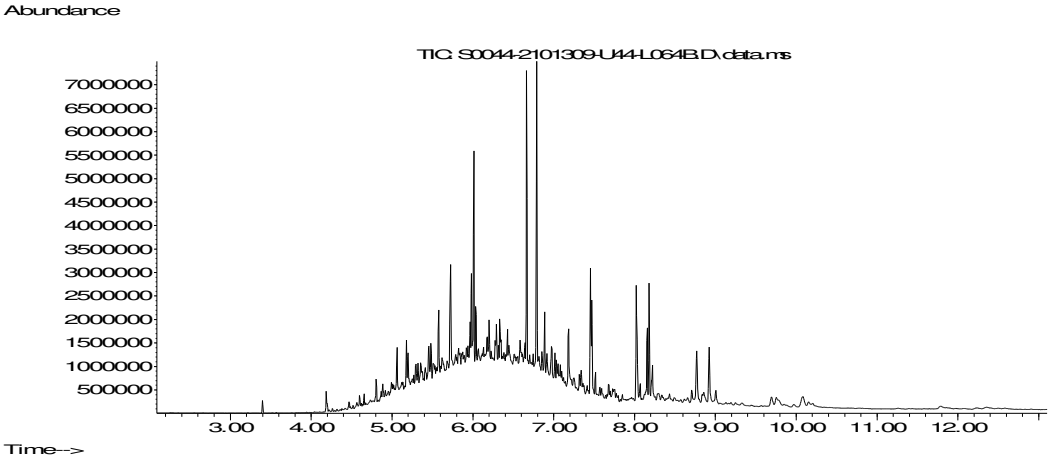

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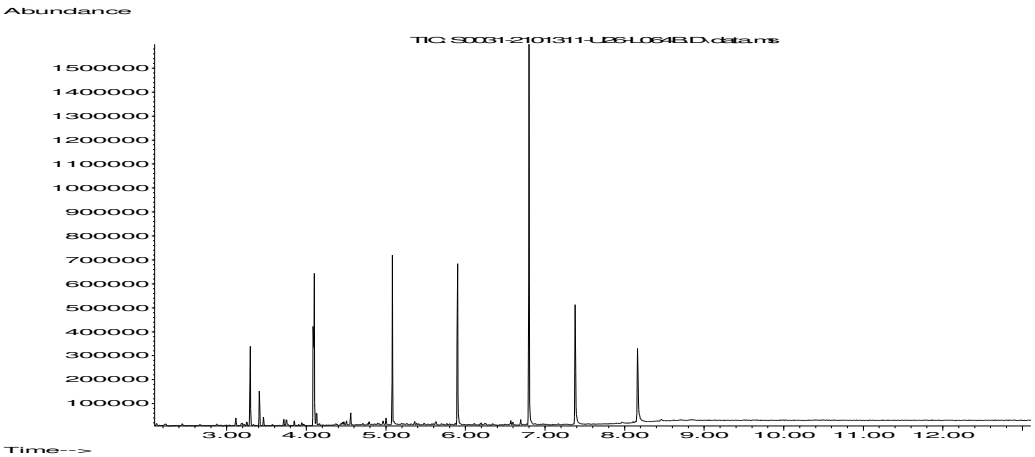

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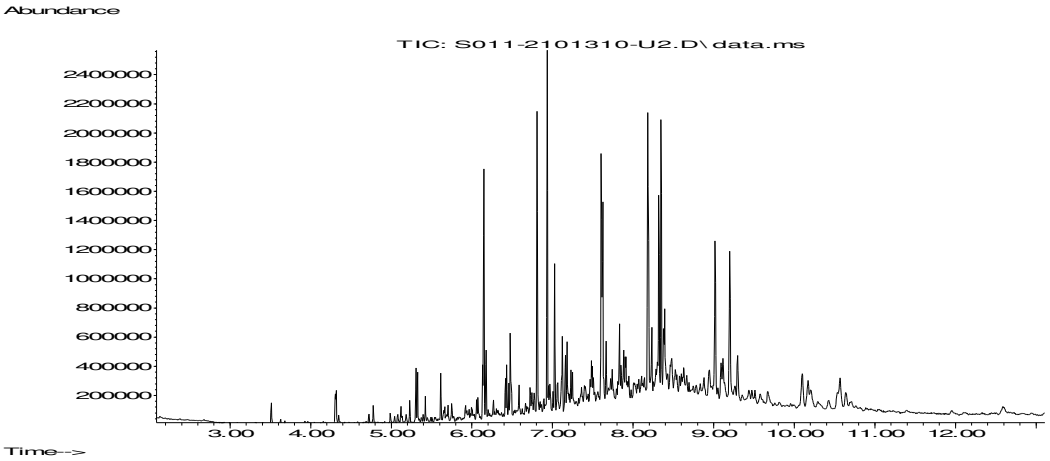

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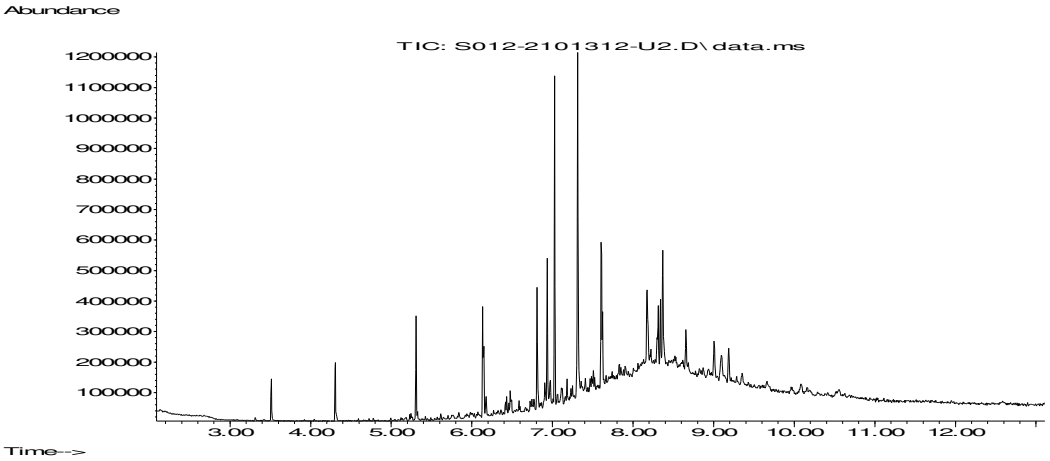

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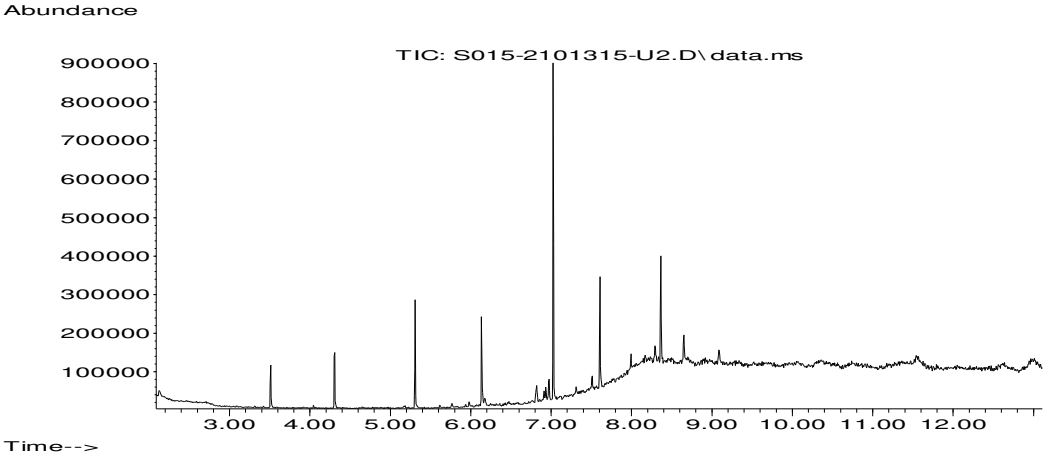

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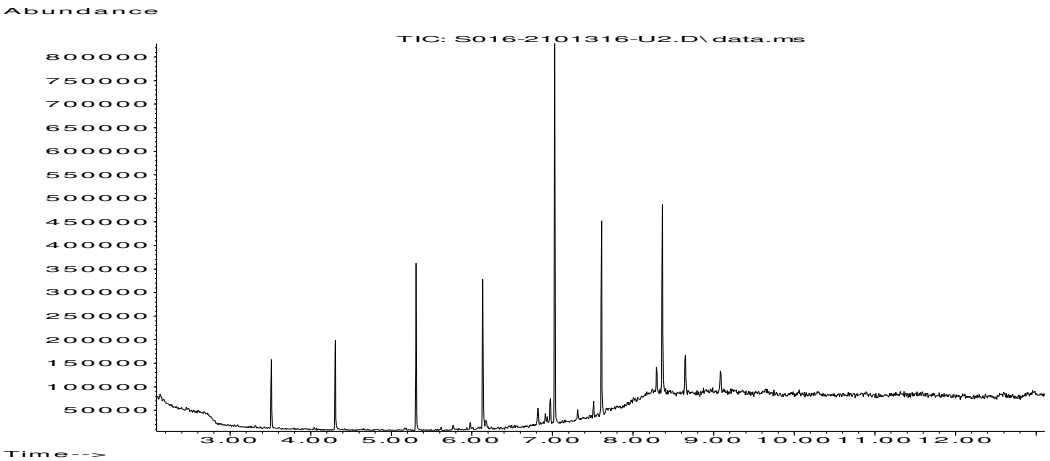

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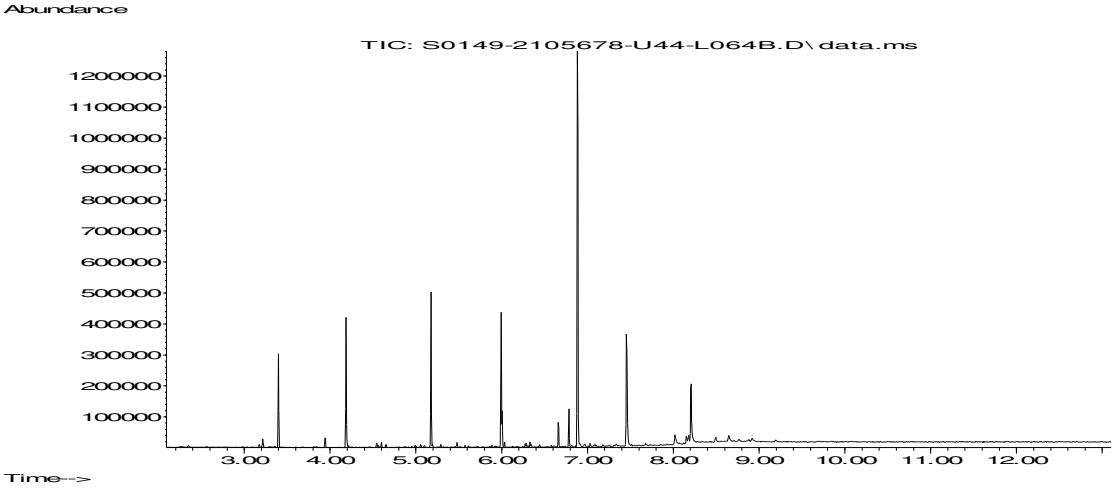

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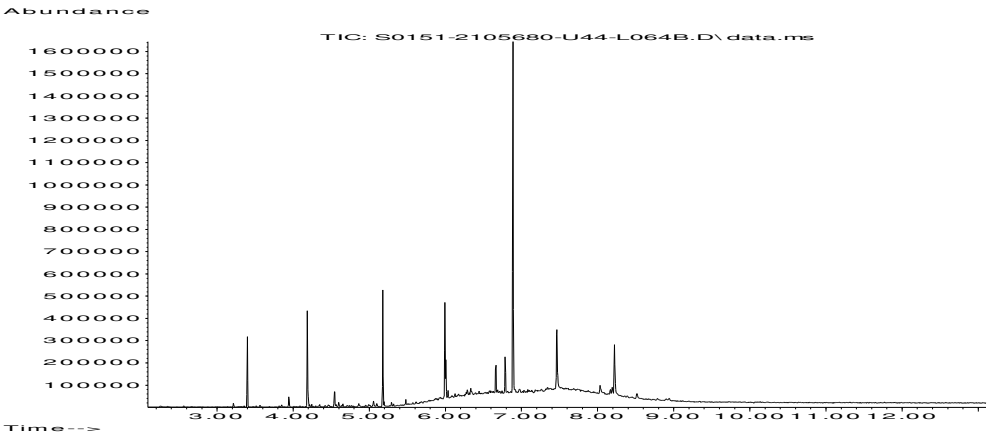

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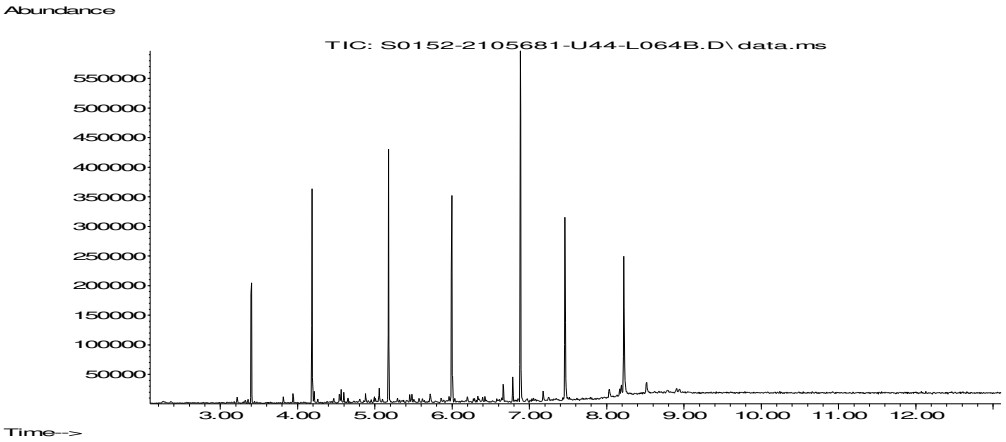

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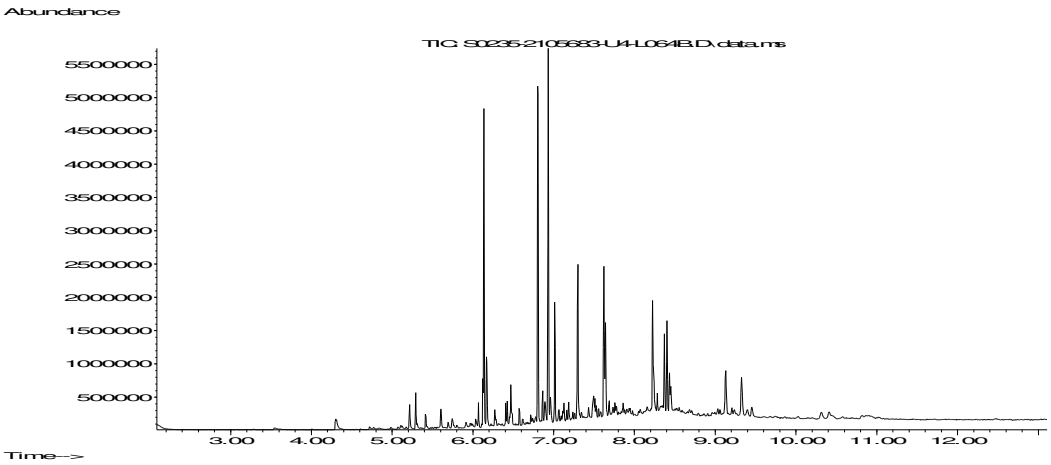

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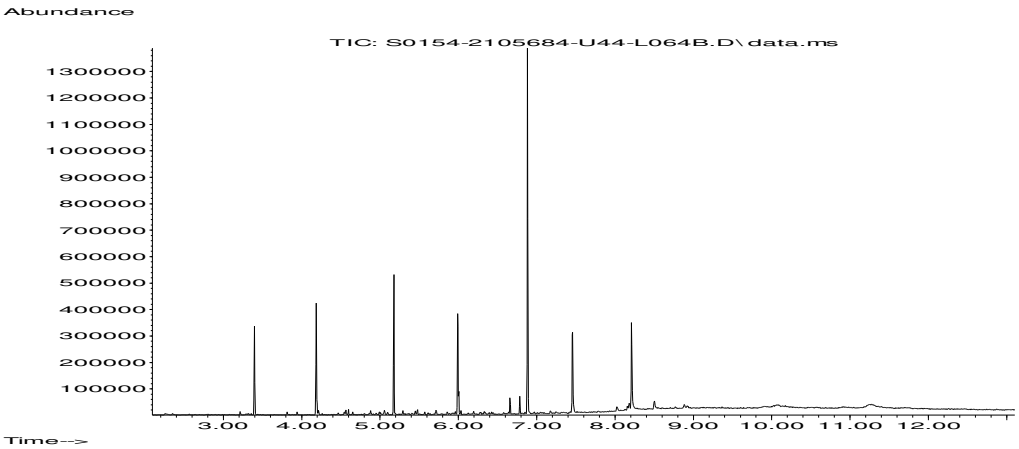

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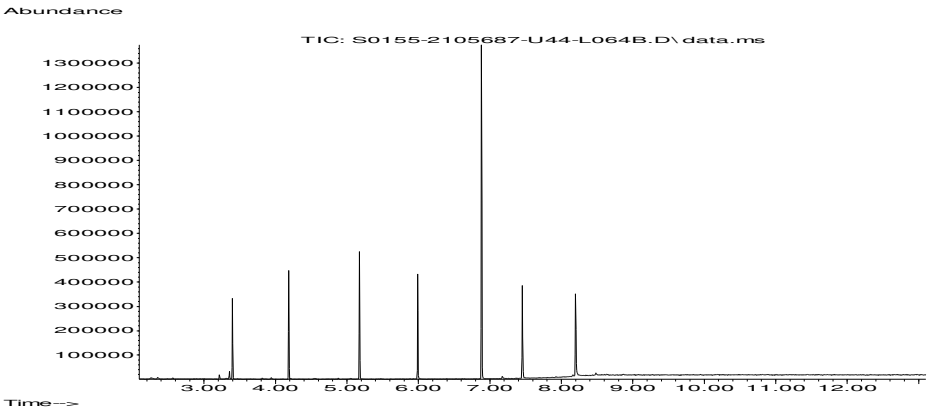

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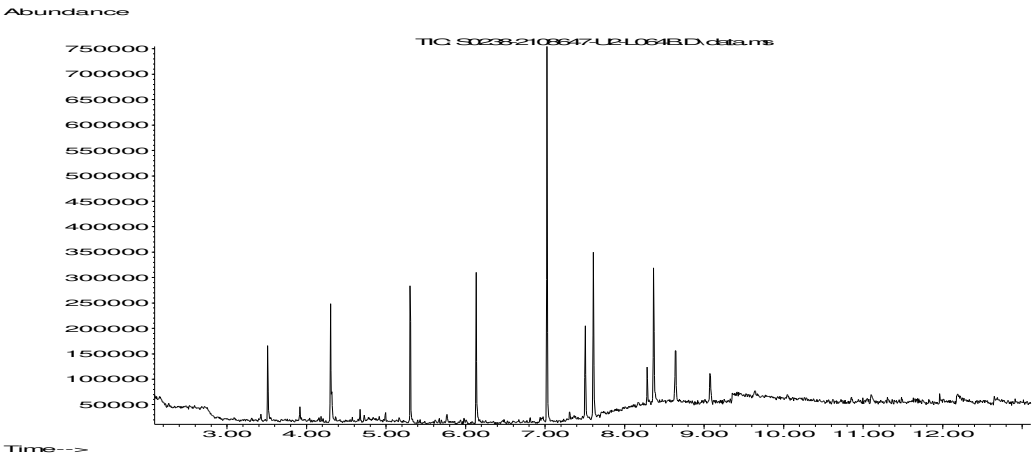

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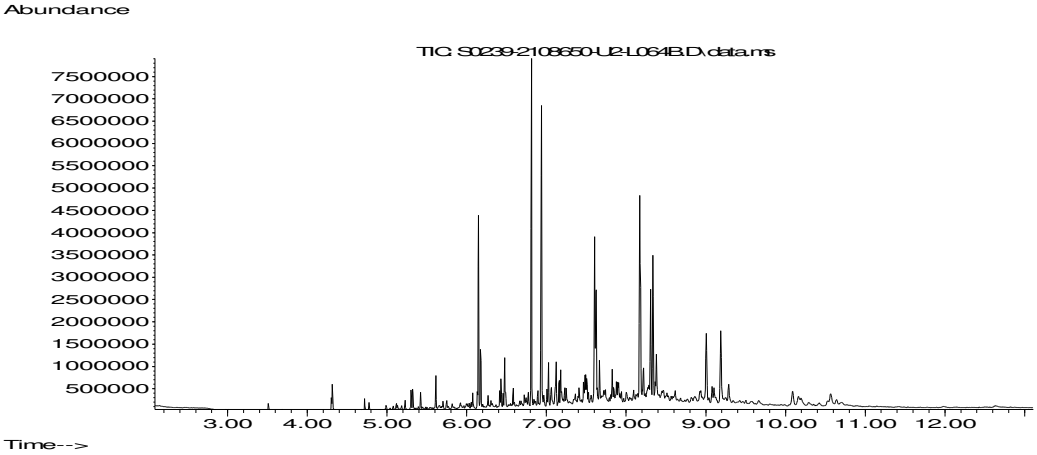

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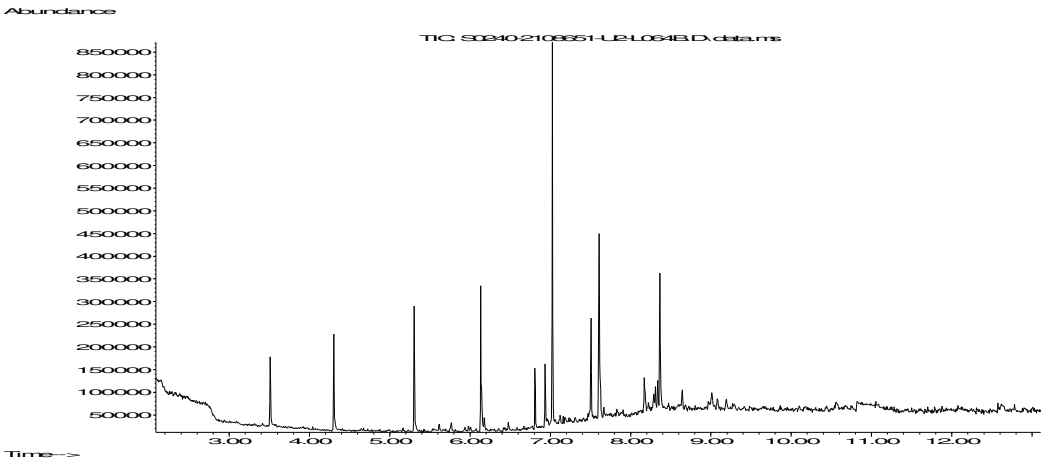

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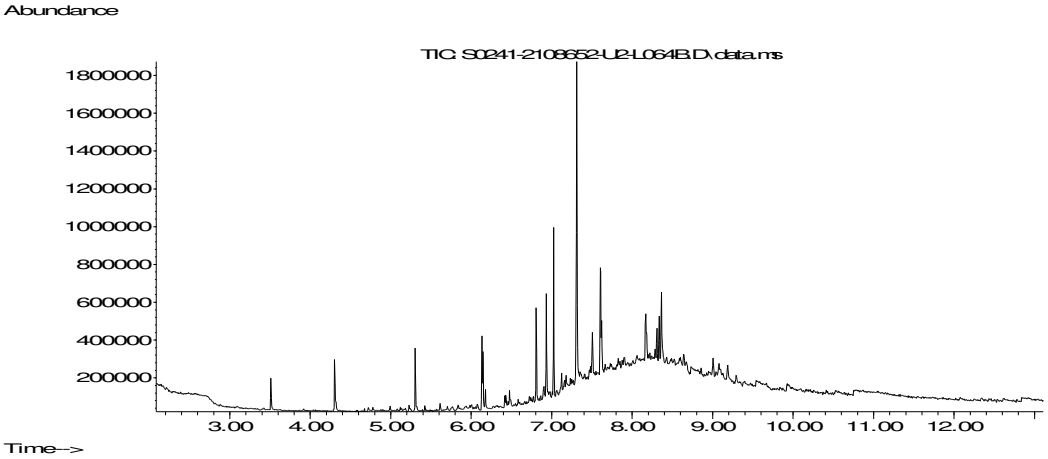

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Time-->

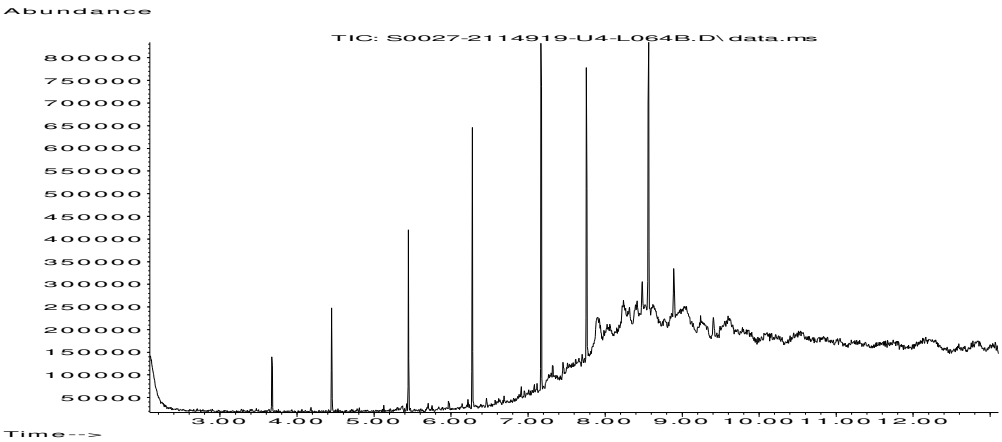

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Time-->

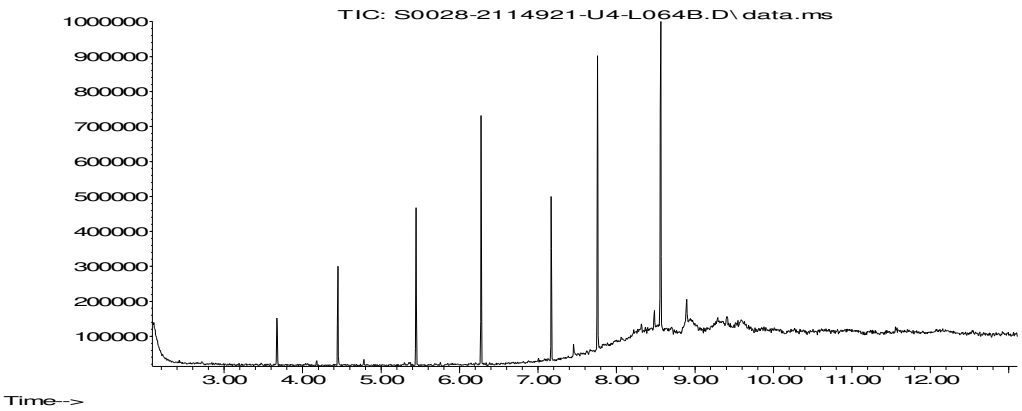

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Time-->

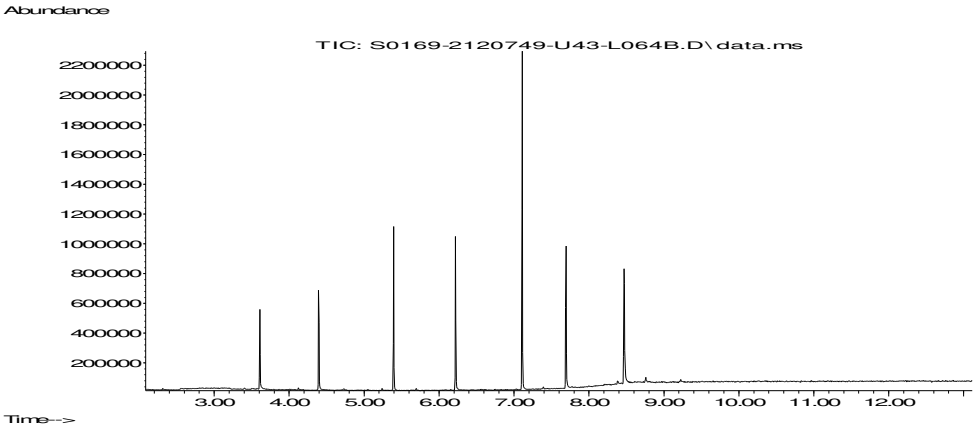

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Time-->


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12.00
Time-->


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Time-->


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Time-->


Abundance
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Time-->


Abundance
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Time-->

Hydrock CLEA Datasheets

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
								Location & Depth	WS704	WS702	TP715	TP710	MPBH703A	TP708	TP707	TP714	TP713	TP713	TP711	TP703
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**0.90**	**0.70-0.90**	**0.75**	**0.80**	**0.20-0.40**	**0.40**	**0.60**	**0.50**	**0.55**	**1.40-1.60**	**0.65**	**0.50**
Arsenic	1	30	4.1	170	9	40	54.702291	FURTHER ASSESSMENT REQUIRED	74	31	44	45	12	7.3	4.4	6.9	56	25	67	5.9
Beryllium	0.06	30	0.47	5.5	0	73	2.0457105	POTENTIALLY SUITABLE FOR USE	0.54	1.2	0.84	0.88	0.71	0.96	1.1	1.3	5.5	1.1	3.1	0.89
Boron	0.2	30	0.2	8.4	0	11000	2.6124286	POTENTIALLY SUITABLE FOR USE	0.4	0.2	1.7	0.3	0.5	0.2	0.2	0.4	1.3	1.1	0.6	8.4
Cadmium	0.2	30	0.2	8.4	0	87	4.0540944	POTENTIALLY SUITABLE FOR USE	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	8.4	8.4
Chromium (III)	1	30	12	56	0	890	32.557952	POTENTIALLY SUITABLE FOR USE	19	21	17	20	23	31	30	31	39	21	26	29
Chromium (VI)	1.2	30	1.2	1.2	0	6.1	1.2		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	30	8.8	490	0	7300	159.45771	POTENTIALLY SUITABLE FOR USE	62	64	44	46	41	17	17	26	380	44	90	20
Lead	2	30	10	430	1	310	139.11082	POTENTIALLY SUITABLE FOR USE	82	88	68	79	55	12	12	23	140	29	24	19
Mercury, inorganic	0.3	30	0.3	6	0	240	1.6573316	POTENTIALLY SUITABLE FOR USE	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.7	0.3	0.3
Nickel	2	30	16	97	0	180	49.704946	POTENTIALLY SUITABLE FOR USE	33	37	26	30	18	30	26	32	97	29	51	26
Selenium	1	30	1	1	0	600	1		1	1	1	1	1	1	1	1	1	1	1	1
Vanadium	1	30	21	98	0	1200	50.442191	POTENTIALLY SUITABLE FOR USE	30	33	29	31	24	32	33	37	98	21	75	32
Zinc	2	30	31	480	0	40000	183.95181	POTENTIALLY SUITABLE FOR USE	55	89	96	110	76	48	46	70	480	87	31	45
Cyanide (free)	1	30	1	1	0	800	1		1	1	1	1	1	1	1	1	1	1	1	1
Phenol (total)	2	30	1	64	0	750	12.402947	POTENTIALLY SUITABLE FOR USE	1	1	1	1	1	1	1	1	1	5.4	1	1
Acenaphthene	0.05	30	0.05	57	0	3000	16.91151	POTENTIALLY SUITABLE FOR USE	49	7.7	1.7	3.1	0.2	0.75	0.05	0.05	0.05	25	0.05	0.05
Acenaphthylene	0.05	30	0.05	110	0	2900	28.618144	POTENTIALLY SUITABLE FOR USE	110	5.9	1.2	0.7	0.05	0.43	0.05	0.05	0.3	63	0.05	0.05
Anthracene	0.05	30	0.05	140	0	31000	50.090036	POTENTIALLY SUITABLE FOR USE	140	25	9.1	6.4	0.45	1.4	0.05	0.24	0.64	140	0.05	0.53
Benz(a)anthracene	0.05	30	0.05	380	14	5.5	100.34828	FURTHER ASSESSMENT REQUIRED	380	100	34	40	0.99	2.8	0.05	0.36	1.1	120	0.05	0.82
Benzo(a)pyrene	0.05	30	0.05	350	18	1.5	91.402506	FURTHER ASSESSMENT REQUIRED	350	120	28	38	0.91	2.2	0.05	0.37	0.89	96	0.05	0.7
Benzo(b)fluoranthene	0.05	30	0.05	310	12	11	88.59445	FURTHER ASSESSMENT REQUIRED	310	110	36	43	0.94	2.4	0.05	0.36	0.92	100	0.05	0.68
Benzo(ghi)perylene	0.05	30	0.05	280	3	71	67.105565	POTENTIALLY SUITABLE FOR USE	280	75	17	21	0.59	1.4	0.05	0.05	0.59	59	0.05	0.4
Benzo(k)fluoranthene	0.05	30	0.05	170	7	15	40.494745	FURTHER ASSESSMENT REQUIRED	170	43	14	17	0.52	1.1	0.05	0.15	0.49	44	0.05	0.4
Chrysene	0.05	30	0.05	360	12	13	89.226934	FURTHER ASSESSMENT REQUIRED	360	88	25	35	0.97	2.7	0.05	0.29	1.1	100	0.05	0.73
Dibenz(a,h)anthracene	0.05	30	0.05	86	13	1.3	19.840682	FURTHER ASSESSMENT REQUIRED	86	24	4.4	5.3	0.05	0.3	0.05	0.05	0.05	14	0.05	0.05
Fluoranthene	0.05	30	0.05	600	0	1500	181.99204	POTENTIALLY SUITABLE FOR USE	600	130	63	71	2	6.4	0.05	0.75	2.2	310	0.05	1.7
Fluorene	0.05	30	0.05	120	0	2800	38.328578	POTENTIALLY SUITABLE FOR USE	90	9.9	1.5	1.4	0.23	0.92	0.05	0.05	0.39	120	0.05	0.05
Indeno(1,2,3,cd)pyrene	0.05	30	0.05	180	12	6.3	47.648603	FURTHER ASSESSMENT REQUIRED	180	61	16	18	0.48	1.1	0.05	0.05	0.56	47	0.05	0.44
Naphthalene	0.05	30	0.05	360	8	2.3	84.776705	FURTHER ASSESSMENT REQUIRED	42	4.2	0.05	0.48	0.38	1.5	0.05	0.05	0.05	360	0.05	0.05
Phenanthrene	0.05	30	0.05	700	0	1300	220.54782	POTENTIALLY SUITABLE FOR USE	700	95	16	25	1.8	7.8	0.05	0.75	2.1	510	0.05	1.7
Pyrene	0.05	30	0.05	670	0	3700	192.12133	POTENTIALLY SUITABLE FOR USE	670	150	56	65	2.1	6.9	0.05	0.72	2.3	290	0.05	1.9
Asbestos identified	Y/N								Y	N	Y	N	Y	N	N	N	N	N	Y	N
FOC (dimensionless)	0.0206	**(mean)**							0.072	0.042	0.039	0.028	0.019	0.0044	0.0041	0.0041	0.015	0.043	0.03	0.0067
SOM (calculated)	3.55%	**(mean)**							12.41%	7.24%	6.72%	4.83%	3.28%	0.76%	0.71%	0.71%	2.59%	7.41%	5.17%	1.16%
pH (su)	8.6	**(mean)**							8.3	6.7	8.1	10.2	8.3	8.1	6.6	9.1	8.6	8.3	6.5	8

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 24-23857-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
								Location & Depth	TP720	TP720	TP720	WS704	WS702	MPBH708	WS703	WS701	MPBH706	MPBH704	MPBH710	TP712
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**0.20**	**0.90**	**1.40-1.50**	**1.20**	**1.40-1.50**	**0.50**	**0.80**	**0.50**	**0.50**	**0.50**	**0.50**	**0.20**
Arsenic	1	30	4.1	170	9	40	54.702291	FURTHER ASSESSMENT REQUIRED	44	40	48	170	11	5	13	16	4.1	4.4	5.2	33
Beryllium	0.06	30	0.47	5.5	0	73	2.0457105	POTENTIALLY SUITABLE FOR USE	1.6	2.7	1.8	0.47	1.1	0.67	1	1.1	0.77	0.88	0.92	1.5
Boron	0.2	30	0.2	8.4	0	11000	2.6124286	POTENTIALLY SUITABLE FOR USE	8.4	0.5	0.8	0.2	0.6	0.2	0.2	0.4	0.2	0.4	0.3	0.3
Cadmium	0.2	30	0.2	8.4	0	87	4.0540944	POTENTIALLY SUITABLE FOR USE	8.4	8.4	8.4	0.2	0.5	0.3	0.2	0.2	0.2	0.3	0.3	0.2
Chromium (III)	1	30	12	56	0	890	32.557952	POTENTIALLY SUITABLE FOR USE	56	28	23	12	30	23	24	24	23	28	30	32
Chromium (VI)	1.2	30	1.2	1.2	0	6.1	1.2		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	30	8.8	490	0	7300	159.45771	POTENTIALLY SUITABLE FOR USE	490	82	160	71	51	13	59	42	8.8	12	16	200
Lead	2	30	10	430	1	310	139.11082	POTENTIALLY SUITABLE FOR USE	430	33	140	62	100	15	58	190	11	11	16	190
Mercury, inorganic	0.3	30	0.3	6	0	240	1.6573316	POTENTIALLY SUITABLE FOR USE	0.3	0.3	0.5	0.3	0.3	0.3	0.3	6	0.3	0.3	0.3	0.3
Nickel	2	30	16	97	0	180	49.704946	POTENTIALLY SUITABLE FOR USE	80	54	48	33	41	18	27	31	20	22	23	55
Selenium	1	30	1	1	0	600	1		1	1	1	1	1	1	1	1	1	1	1	1
Vanadium	1	30	21	98	0	1200	50.442191	POTENTIALLY SUITABLE FOR USE	47	68	53	40	35	23	33	30	24	28	32	50
Zinc	2	30	31	480	0	40000	183.95181	POTENTIALLY SUITABLE FOR USE	440	58	190	39	82	45	67	79	32	48	42	220
Cyanide (free)	1	30	1	1	0	800	1		1	1	1	1	1	1	1	1	1	1	1	1
Phenol (total)	2	30	1	64	0	750	12.402947	POTENTIALLY SUITABLE FOR USE	1	1	1	64	1	1	1	1	1	1	1	1
Acenaphthene	0.05	30	0.05	57	0	3000	16.91151	POTENTIALLY SUITABLE FOR USE	6.6	2.2	7.7	57	5.6	0.05	2.7	2.3	0.05	0.05	0.05	0.39
Acenaphthylene	0.05	30	0.05	110	0	2900	28.618144	POTENTIALLY SUITABLE FOR USE	0.05	0.6	6	65	3.3	0.05	0.05	1	0.05	0.05	0.05	0.05
Anthracene	0.05	30	0.05	140	0	31000	50.090036	POTENTIALLY SUITABLE FOR USE	12	13	35	120	16	0.05	5.2	8.8	0.05	0.05	0.05	0.97
Benz(a)anthracene	0.05	30	0.05	380	14	5.5	100.34828	FURTHER ASSESSMENT REQUIRED	33	23	89	200	30	0.05	10	18	0.35	0.05	0.25	3.1
Benzo(a)pyrene	0.05	30	0.05	350	18	1.5	91.402506	FURTHER ASSESSMENT REQUIRED	23	16	96	160	23	0.05	7.3	14	0.35	0.05	0.05	2.9
Benzo(b)fluoranthene	0.05	30	0.05	310	12	11	88.59445	FURTHER ASSESSMENT REQUIRED	28	19	97	190	27	0.05	9.4	17	0.31	0.05	0.05	3.3
Benzo(ghi)perylene	0.05	30	0.05	280	3	71	67.105565	POTENTIALLY SUITABLE FOR USE	15	10	68	100	13	0.05	5.1	8.2	0.05	0.05	0.05	1.8
Benzo(k)fluoranthene	0.05	30	0.05	170	7	15	40.494745	FURTHER ASSESSMENT REQUIRED	12	11	39	42	15	0.05	3.4	4.5	0.17	0.05	0.05	1.6
Chrysene	0.05	30	0.05	360	12	13	89.226934	FURTHER ASSESSMENT REQUIRED	23	19	80	150	23	0.05	8.3	13	0.24	0.05	0.24	2.6
Dibenz(a,h)anthracene	0.05	30	0.05	86	13	1.3	19.840682	FURTHER ASSESSMENT REQUIRED	4.2	2.7	14	29	3.8	0.05	1.3	2.5	0.05	0.05	0.05	0.47
Fluoranthene	0.05	30	0.05	600	0	1500	181.99204	POTENTIALLY SUITABLE FOR USE	65	41	170	450	53	0.3	25	29	0.52	0.05	0.45	4.7
Fluorene	0.05	30	0.05	120	0	2800	38.328578	POTENTIALLY SUITABLE FOR USE	4.2	3.1	12	110	11	0.05	2	2.9	0.05	0.05	0.05	0.41
Indeno(1,2,3,cd)pyrene	0.05	30	0.05	180	12	6.3	47.648603	FURTHER ASSESSMENT REQUIRED	13	8.9	53	89	11	0.05	4.1	6.7	0.05	0.05	0.05	1.7
Naphthalene	0.05	30	0.05	360	8	2.3	84.776705	FURTHER ASSESSMENT REQUIRED	0.05	0.05	16	240	19	0.05	0.05	0.05	0.05	0.05	0.05	0.79
Phenanthrene	0.05	30	0.05	700	0	1300	220.54782	POTENTIALLY SUITABLE FOR USE	37	22	130	580	69	0.05	20	25	0.36	0.05	0.6	3.3
Pyrene	0.05	30	0.05	670	0	3700	192.12133	POTENTIALLY SUITABLE FOR USE	61	34	180	460	54	0.31	22	29	0.56	0.05	0.52	4.9
Asbestos identified	Y/N								N	N	N	N	N	N	N	Y	N	N	N	N
FOC (dimensionless)	0.0206	**(mean)**							0.022	0.032	0.047	0.054	0.016	0.0038	0.018	0.02	0.0037	0.0034	0.0031	0.035
SOM (calculated)	3.55%	**(mean)**							3.79%	5.52%	8.10%	9.31%	2.76%	0.66%	3.10%	3.45%	0.64%	0.59%	0.53%	6.03%
pH (su)	8.6	**(mean)**							7.9	8	7.9	7.4	7.8	11.6	9	8.7	10	10.7	11.1	8.2

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 24-23857-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21-27101

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type	MG	MG	MG	MG	MG	MG
								Location & Depth	TP712	TP716	TP701	MPBH707	MPBH709	MPBH709
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**1.30**	**1.10**	**0.40**	**0.50**	**0.80**	**3.80**
Arsenic	1	30	4.1	170	9	40	54.702291	FURTHER ASSESSMENT REQUIRED	13	21	12	4.2	8	5
Beryllium	0.06	30	0.47	5.5	0	73	2.0457105	POTENTIALLY SUITABLE FOR USE	1.1	1.2	0.65	0.84	0.78	0.68
Boron	0.2	30	0.2	8.4	0	11000	2.6124286	POTENTIALLY SUITABLE FOR USE	0.3	0.2	0.4	0.2	0.3	0.3
Cadmium	0.2	30	0.2	8.4	0	87	4.0540944	POTENTIALLY SUITABLE FOR USE	0.2	0.2	0.2	0.2	0.2	0.2
Chromium (III)	1	30	12	56	0	890	32.557952	POTENTIALLY SUITABLE FOR USE	28	28	16	27	27	23
Chromium (VI)	1.2	30	1.2	1.2	0	6.1	1.2		1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	30	8.8	490	0	7300	159.45771	POTENTIALLY SUITABLE FOR USE	34	42	25	10	18	21
Lead	2	30	10	430	1	310	139.11082	POTENTIALLY SUITABLE FOR USE	44	44	110	14	26	10
Mercury, inorganic	0.3	30	0.3	6	0	240	1.6573316	POTENTIALLY SUITABLE FOR USE	0.6	4	0.3	0.3	0.3	0.3
Nickel	2	30	16	97	0	180	49.704946	POTENTIALLY SUITABLE FOR USE	33	38	16	27	25	40
Selenium	1	30	1	1	0	600	1		1	1	1	1	1	1
Vanadium	1	30	21	98	0	1200	50.442191	POTENTIALLY SUITABLE FOR USE	31	32	24	29	28	26
Zinc	2	30	31	480	0	40000	183.95181	POTENTIALLY SUITABLE FOR USE	79	110	73	48	40	37
Cyanide (free)	1	30	1	1	0	800	1		1	1	1	1	1	1
Phenol (total)	2	30	1	64	0	750	12.402947	POTENTIALLY SUITABLE FOR USE	1	1	1	1	1	1
Acenaphthene	0.05	30	0.05	57	0	3000	16.91151	POTENTIALLY SUITABLE FOR USE	0.63	4.7	0.33	0.05	2	0.05
Acenaphthylene	0.05	30	0.05	110	0	2900	28.618144	POTENTIALLY SUITABLE FOR USE	0.15	1.9	0.3	0.05	1.5	0.05
Anthracene	0.05	30	0.05	140	0	31000	50.090036	POTENTIALLY SUITABLE FOR USE	1.4	7.3	0.8	0.05	3.7	0.35
Benz(a)anthracene	0.05	30	0.05	380	14	5.5	100.34828	FURTHER ASSESSMENT REQUIRED	5.1	21	2.9	0.26	7.8	0.83
Benzo(a)pyrene	0.05	30	0.05	350	18	1.5	91.402506	FURTHER ASSESSMENT REQUIRED	6.1	24	3	0.05	7	0.65
Benzo(b)fluoranthene	0.05	30	0.05	310	12	11	88.59445	FURTHER ASSESSMENT REQUIRED	5.6	22	2.8	0.05	7.5	0.71
Benzo(ghi)perylene	0.05	30	0.05	280	3	71	67.105565	POTENTIALLY SUITABLE FOR USE	4.6	16	1.9	0.05	4.1	0.05
Benzo(k)fluoranthene	0.05	30	0.05	170	7	15	40.494745	FURTHER ASSESSMENT REQUIRED	2.7	9.7	1.8	0.05	3.5	0.36
Chrysene	0.05	30	0.05	360	12	13	89.226934	FURTHER ASSESSMENT REQUIRED	3.4	16	2.7	0.18	8	0.83
Dibenz(a,h)anthracene	0.05	30	0.05	86	13	1.3	19.840682	FURTHER ASSESSMENT REQUIRED	1	3.5	0.51	0.05	1	0.05
Fluoranthene	0.05	30	0.05	600	0	1500	181.99204	POTENTIALLY SUITABLE FOR USE	5.9	26	4.7	0.42	17	1.7
Fluorene	0.05	30	0.05	120	0	2800	38.328578	POTENTIALLY SUITABLE FOR USE	0.51	4.3	0.32	0.05	2.7	0.22
Indeno(1,2,3,cd)pyrene	0.05	30	0.05	180	12	6.3	47.648603	FURTHER ASSESSMENT REQUIRED	3.8	13	1.5	0.05	3.4	0.05
Naphthalene	0.05	30	0.05	360	8	2.3	84.776705	FURTHER ASSESSMENT REQUIRED	0.66	5.3	0.31	0.05	4.3	0.54
Phenanthrene	0.05	30	0.05	700	0	1300	220.54782	POTENTIALLY SUITABLE FOR USE	4.7	27	4	0.53	20	1.7
Pyrene	0.05	30	0.05	670	0	3700	192.12133	POTENTIALLY SUITABLE FOR USE	6.7	30	5.1	0.53	18	1.7
Asbestos identified	Y/N								N	N	N	N	N	N
FOC (dimensionless)	0.0206	**(mean)**							0.012	0.017	0.01	0.0038	0.005	0.0049
SOM (calculated)	3.55%	**(mean)**							2.07%	2.93%	1.72%	0.66%	0.86%	0.84%
pH (su)	8.6	**(mean)**							8.6	8.2	8.7	10.1	9.7	8.8

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 24-23857-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21-27101

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
									Location & Depth	MPBH704	MPBH706	MPBH708	MPBH707	TP708	TP707	TP714	TP703	TP701	MPBH707	MPBH709
										0.50	0.50	0.50	0.50	0.40	0.60	0.50	0.50	0.40	0.50	0.80
Arsenic	1	11	4.1	12	0	40	9.22151	POTENTIALLY SUITABLE FOR USE		4.4	4.1	5	4.2	7.3	4.4	6.9	5.9	12	4.2	8
Beryllium	0.06	11	0.65	1.3	0	73	1.127199	POTENTIALLY SUITABLE FOR USE		0.88	0.77	0.67	0.84	0.96	1.1	1.3	0.89	0.65	0.84	0.78
Boron	0.2	11	0.2	8.4	0	11000	4.233698	POTENTIALLY SUITABLE FOR USE		0.4	0.2	0.2	0.2	0.2	0.2	0.4	8.4	0.4	0.2	0.3
Cadmium	0.2	11	0.2	8.4	0	87	4.206317	POTENTIALLY SUITABLE FOR USE		0.3	0.2	0.3	0.2	0.2	0.2	0.2	8.4	0.2	0.2	0.2
Chromium (III)	1	11	16	31	0	890	32.37618	POTENTIALLY SUITABLE FOR USE		28	23	23	27	31	30	31	29	16	27	27
Chromium (VI)	1.2	11	1.2	1.2	0	6.1	1.2	POTENTIALLY SUITABLE FOR USE		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	11	8.8	26	0	7300	23.86971	POTENTIALLY SUITABLE FOR USE		12	8.8	13	10	17	17	26	20	25	10	18
Lead	2	11	11	110	0	310	62.21903	POTENTIALLY SUITABLE FOR USE		11	11	15	14	12	12	23	19	110	14	26
Mercury, inorganic	0.3	11	0.3	0.3	0	240	0.3	POTENTIALLY SUITABLE FOR USE		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Nickel	2	11	16	32	0	180	30.95781	POTENTIALLY SUITABLE FOR USE		22	20	18	27	30	26	32	26	16	27	25
Selenium	1	11	1	1	0	600	1			1	1	1	1	1	1	1	1	1	1	1
Vanadium	1	11	23	37	0	1200	34.66952	POTENTIALLY SUITABLE FOR USE		28	24	23	29	32	33	37	32	24	29	28
Zinc	2	11	32	73	0	40000	65.08684	POTENTIALLY SUITABLE FOR USE		48	32	45	48	48	46	70	45	73	48	40
Cyanide (free)	1	11	1	1	0	800	1			1	1	1	1	1	1	1	1	1	1	1
Phenol (total)	2	11	1	1	0	750	1			1	1	1	1	1	1	1	1	1	1	1
Acenaphthene	0.05	11	0.05	2	0	3000	1.104071	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.75	0.05	0.05	0.05	0.33	0.05	2
Acenaphthylene	0.05	11	0.05	1.5	0	2900	0.814528	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.43	0.05	0.05	0.05	0.3	0.05	1.5
Anthracene	0.05	11	0.05	3.7	0	31000	2.087257	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	1.4	0.05	0.24	0.53	0.8	0.05	3.7
Benz(a)anthracene	0.05	11	0.05	7.8	1	5.5	4.53118	POTENTIALLY SUITABLE FOR USE		0.05	0.35	0.05	0.26	2.8	0.05	0.36	0.82	2.9	0.26	7.8
Benzo(a)pyrene	0.05	11	0.05	7	3	1.5	4.083853	FURTHER ASSESSMENT REQUIRED		0.05	0.35	0.05	0.05	2.2	0.05	0.37	0.7	3	0.05	7
Benzo(b)fluoranthene	0.05	11	0.05	7.5	0	11	4.296589	POTENTIALLY SUITABLE FOR USE		0.05	0.31	0.05	0.05	2.4	0.05	0.36	0.68	2.8	0.05	7.5
Benzo(ghi)perylene	0.05	11	0.05	4.1	0	71	2.430506	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	1.4	0.05	0.05	0.4	1.9	0.05	4.1
Benzo(k)fluoranthene	0.05	11	0.05	3.5	0	15	2.10922	POTENTIALLY SUITABLE FOR USE		0.05	0.17	0.05	0.05	1.1	0.05	0.15	0.4	1.8	0.05	3.5
Chrysene	0.05	11	0.05	8	0	13	4.556106	POTENTIALLY SUITABLE FOR USE		0.05	0.24	0.05	0.18	2.7	0.05	0.29	0.73	2.7	0.18	8
Dibenz(a,h)anthracene	0.05	11	0.05	1	0	1.3	0.600962	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.3	0.05	0.05	0.05	0.51	0.05	1
Fluoranthene	0.05	11	0.05	17	0	1500	9.657351	POTENTIALLY SUITABLE FOR USE		0.05	0.52	0.3	0.42	6.4	0.05	0.75	1.7	4.7	0.42	17
Fluorene	0.05	11	0.05	2.7	0	2800	1.458183	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	0.92	0.05	0.05	0.05	0.32	0.05	2.7
Indeno(1,2,3,cd)pyrene	0.05	11	0.05	3.4	0	6.3	1.998519	POTENTIALLY SUITABLE FOR USE		0.05	0.05	0.05	0.05	1.1	0.05	0.05	0.44	1.5	0.05	3.4
Naphthalene	0.05	11	0.05	4.3	1	2.3	2.306003	FURTHER ASSESSMENT REQUIRED		0.05	0.05	0.05	0.05	1.5	0.05	0.05	0.05	0.31	0.05	4.3
Phenanthrene	0.05	11	0.05	20	0	1300	11.19139	POTENTIALLY SUITABLE FOR USE		0.05	0.36	0.05	0.53	7.8	0.05	0.75	1.7	4	0.53	20
Pyrene	0.05	11	0.05	18	0	3700	10.27281	POTENTIALLY SUITABLE FOR USE		0.05	0.56	0.31	0.53	6.9	0.05	0.72	1.9	5.1	0.53	18
Asbestos identified	Y/N									N	N	N	N	N	N	N	N	N	N	N
FOC (dimensionless)	0.0048	**(mean)**								0.0034	0.0037	0.0038	0.0038	0.0044	0.0041	0.0041	0.0067	0.01	0.0038	0.005
SOM (calculated)	0.83%	**(mean)**								0.59%	0.64%	0.66%	0.66%	0.76%	0.71%	0.71%	1.16%	1.72%	0.66%	0.86%
pH (su)	9.3	**(mean)**								10.7	10	11.6	10.1	8.1	6.6	9.1	8	8.7	10.1	9.7

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: SITE WON GRAVEL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-25355-1, 21-26273-1, 21-24726-1, 21-23857-1, 21-24529-1, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	GT	GT	GT	GT	GT							
All values in mg/kg unless otherwise stated							Location & Depth	TP715	TP720	WS704	WS701	TP722							
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**1.25-1.25**	**1.75-1.75**	**1.80-1.80**	**0.90-0.90**	**1.70-1.70**							
Arsenic	1	5	6	12	0	40		7.8	12	7.2	7.1	6							
Beryllium	0.06	5	0.93	1.4	0	73		1.2	1.4	0.93	1.1	1							
Boron	0.2	5	0.3	0.6	0	11000		0.6	0.5	0.3	0.3	0.4							
Cadmium	0.2	5	0.2	0.7	0	87		0.2	0.7	0.2	0.2	0.2							
Chromium (III)	1	5	24	31	0	890		31	30	24	29	27							
Chromium (VI)	1.2	5	1.2	1.2	0	6.1		1.2	1.2	1.2	1.2	1.2							
Copper	1	5	23	49	0	7300		38	49	25	24	23							
Lead	2	5	11	23	0	310		13	23	12	14	11							
Mercury, inorganic	0.3	5	0.3	0.3	0	240		0.3	0.3	0.3	0.3	0.3							
Nickel	2	5	29	43	0	180		34	43	29	34	31							
Selenium	1	5	1	1	0	600		1	1	1	1	1							
Vanadium	1	5	25	34	0	1200		33	34	25	30	29							
Zinc	2	5	56	240	0	40000		69	240	56	69	57							
Cyanide (free)	1	5	1	1	0	800		1	1	1	1	1							
Phenol (total)	2	5	1	1	0	750		1	1	1	1	1							
Acenaphthene	0.05	5	0.05	2.2	0	3000		0.55	2.2	0.05	0.05	1.1							
Acenaphthylene	0.05	5	0.05	2.3	0	2900		0.71	2.3	0.05	0.05	0.44							
Anthracene	0.05	5	0.05	6.5	0	31000		1.9	6.5	0.26	0.05	1.5							
Benz(a)anthracene	0.05	5	0.05	13	1	5.5		2.8	13	0.28	0.05	2.3							
Benzo(a)pyrene	0.05	5	0.05	12	3	1.5		2.4	12	0.05	0.05	1.9							
Benzo(b)fluoranthene	0.05	5	0.05	11	1	11		2.5	11	0.05	0.05	2							
Benzo(ghi)perylene	0.05	5	0.05	8.8	0	71		1.5	8.8	0.05	0.05	1							
Benzo(k)fluoranthene	0.05	5	0.05	6.4	0	15		1.1	6.4	0.05	0.05	0.77							
Chrysene	0.05	5	0.05	9.5	0	13		2.8	9.5	0.3	0.05	2.3							
Dibenz(a,h)anthracene	0.05	5	0.05	1.7	1	1.3		0.39	1.7	0.05	0.05	0.28							
Fluoranthene	0.05	5	0.05	23	0	1500		5.6	23	0.55	0.05	4.5							
Fluorene	0.05	5	0.05	3.5	0	2800		1.2	3.5	0.05	0.05	1.3							
Indeno(1,2,3,cd)pyrene	0.05	5	0.05	6.7	1	6.3		1.3	6.7	0.05	0.05	0.87							
Naphthalene	0.05	5	0.05	8.7	2	2.3		3	8.7	0.05	0.05	1.8							
Phenanthrene	0.05	5	0.05	24	0	1300		7.1	24	0.86	0.05	7.9							
Pyrene	0.05	5	0.05	25	0	3700		6.4	25	0.55	0.05	5.4							
Asbestos identified	Y/N							N	N	N	N	N							
FOC (dimensionless)	0.008629	**(mean)**						0.0088	0.013	0.0074	0.0082	0.0061							
SOM (calculated)	1.49%	**(mean)**						1.52%	2.24%	1.28%	1.41%	1.05%							
pH (su)	8.7	**(mean)**						8.5	8.2	8.4	8.8	8.8							

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21-28774-1, 21

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).
GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	CF										
All values in mg/kg unless otherwise stated							Location & Depth	MPBH706										
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**16.80**										
Arsenic	1	1	1.2	1.2	0	40		1.2										
Beryllium	0.06	1	0.66	0.66	0	73		0.66										
Boron	0.2	1	0.2	0.2	0	11000		0.2										
Cadmium	0.2	1	0.2	0.2	0	87		0.2										
Chromium (III)	1	1	6	6	0	890		6										
Chromium (VI)	1.2	1	1.2	1.2	0	6.1		1.2										
Copper	1	1	4.3	4.3	0	7300		4.3										
Lead	2	1	2.6	2.6	0	310		2.6										
Mercury, inorganic	0.3	1	0.3	0.3	0	240		0.3										
Nickel	2	1	6.7	6.7	0	180		6.7										
Selenium	1	1	1	1	0	600		1										
Vanadium	1	1	9.9	9.9	0	1200		9.9										
Zinc	2	1	17	17	0	40000		17										
Cyanide (free)	1	1	1	1	0	800		1										
Phenol (total)	2	1	1	1	0	750		1										
Acenaphthene	0.05	1	0.05	0.05	0	3000		0.05										
Acenaphthylene	0.05	1	0.05	0.05	0	2900		0.05										
Anthracene	0.05	1	0.05	0.05	0	31000		0.05										
Benz(a)anthracene	0.05	1	0.05	0.05	0	5.5		0.05										
Benzo(a)pyrene	0.05	1	0.05	0.05	0	1.5		0.05										
Benzo(b)fluoranthene	0.05	1	0.05	0.05	0	11		0.05										
Benzo(ghi)perylene	0.05	1	0.05	0.05	0	71		0.05										
Benzo(k)fluoranthene	0.05	1	0.05	0.05	0	15		0.05										
Chrysene	0.05	1	0.05	0.05	0	13		0.05										
Dibenz(a,h)anthracene	0.05	1	0.05	0.05	0	1.3		0.05										
Fluoranthene	0.05	1	0.05	0.05	0	1500		0.05										
Fluorene	0.05	1	0.05	0.05	0	2800		0.05										
Indeno(1,2,3,cd)pyrene	0.05	1	0.05	0.05	0	6.3		0.05										
Naphthalene	0.05	1	0.05	0.05	0	2.3		0.05										
Phenanthrene	0.05	1	0.05	0.05	0	1300		0.05										
Pyrene	0.05	1	0.05	0.05	0	3700		0.05										
Asbestos identified	Y/N							N										
FOC (dimensionless)	0.001975	**(mean)**						0.001										
SOM (calculated)	0.34%	**(mean)**						0.17%										
pH (su)	8.4	**(mean)**						9										

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: CHESTER FORMATION
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-25355-1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
CF denotes Chester Formation

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	BBL	BBL	BBL							
	All values in mg/kg unless otherwise stated					Location & Depth	TP704	TP704	TP722							
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**		**0.95**	**1.15**	**1**							
Arsenic	1	3	9.1	200	2		130	200	9.1							
Beryllium	0.06	3	0.5	0.9	0		0.5	0.9	0.5							
Boron	0.2	3	0.4	1.3	0		1.3	0.9	0.4							
Cadmium	0.2	3	0.2	0.2	0		0.2	0.2	0.2							
Chromium (III)	1	3	14	63	0		14	18	63							
Chromium (VI)	1.2	3	1.2	1.2	0		1.2	1.2	1.2							
Copper	1	3	24	96	0		59	96	24							
Lead	2	3	20	99	0		99	45	20							
Mercury, inorganic	0.3	3	0.3	1.1	0		0.3	0.3	1.1							
Nickel	2	3	25	43	0		25	43	39							
Selenium	1	3	1	1	0		1	1	1							
Vanadium	1	3	23	28	0		24	28	23							
Zinc	2	3	50	70	0		70	50	68							
Cyanide (free)	1	3	1	1	0		1	1	1							
Phenol (total)	2	3	1.7	8.8	0		2	1.7	8.8							
Acenaphthene	0.05	3	23	590	0		140	23	590							
Acenaphthylene	0.05	3	7.5	89	0		57	7.5	89							
Anthracene	0.05	3	50	760	0		210	50	760							
Benz(a)anthracene	0.05	3	170	950	3		400	170	950							
Benzo(a)pyrene	0.05	3	200	600	3		260	200	600							
Benzo(b)fluoranthene	0.05	3	200	650	3		330	200	650							
Benzo(ghi)perylene	0.05	3	93	250	3		130	93	250							
Benzo(k)fluoranthene	0.05	3	57	240	3		100	57	240							
Chrysene	0.05	3	130	850	3		340	130	850							
Dibenz(a,h)anthracene	0.05	3	24	82	3		40	24	82							
Fluoranthene	0.05	3	180	1900	1		750	180	1900							
Fluorene	0.05	3	16	690	0		160	16	690							
Indeno(1,2,3,cd)pyrene	0.05	3	80	220	3		110	80	220							
Naphthalene	0.05	3	21	1300	3		320	21	1300							
Phenanthrene	0.05	3	140	3300	1		1100	140	3300							
Pyrene	0.05	3	210	2100	0		750	210	2100							
Asbestos identified	Y/N						Y	N	N							
FOC (dimensionless)	0.061333	**(mean)**					0.061	0.06	0.063							
SOM (calculated)	10.57%	**(mean)**					10.52%	10.34%	10.86%							
pH (su)	7.7	**(mean)**					7.7	7	8.3							

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: BURIED BITUMINOUS MATERIAL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-23857

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

MG denotes Made Ground

NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	TS											
All values in mg/kg unless otherwise stated						Location & Depth	TP703											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.20**											
Arsenic	1	1	11	11	0	40	11											
Beryllium	0.06	1	0.67	0.67	0	73	0.67											
Boron	0.2	1	8.4	8.4	0	11000	8.4											
Cadmium	0.2	1	8.4	8.4	0	87	8.4											
Chromium (III)	1	1	20	20	0	890	20											
Chromium (VI)	1.2	1	1.2	1.2	0	6.1	1.2											
Copper	1	1	44	44	0	7300	44											
Lead	2	1	65	65	0	310	65											
Mercury, inorganic	0.3	1	0.3	0.3	0	240	0.3											
Nickel	2	1	17	17	0	180	17											
Selenium	1	1	1	1	0	600	1											
Vanadium	1	1	23	23	0	1200	23											
Zinc	2	1	66	66	0	40000	66											
Cyanide (free)	1	1	1	1	0	800	1											
Phenol (total)	2	1	1	1	0	750	1											
Acenaphthene	0.05	1	0.05	0.05	0	3000	0.05											
Acenaphthylene	0.05	1	0.05	0.05	0	2900	0.05											
Anthracene	0.05	1	0.05	0.05	0	31000	0.05											
Benz(a)anthracene	0.05	1	0.26	0.26	0	5.5	0.26											
Benzo(a)pyrene	0.05	1	0.05	0.05	0	1.5	0.05											
Benzo(b)fluoranthene	0.05	1	0.05	0.05	0	11	0.05											
Benzo(ghi)perylene	0.05	1	0.05	0.05	0	71	0.05											
Benzo(k)fluoranthene	0.05	1	0.05	0.05	0	15	0.05											
Chrysene	0.05	1	0.22	0.22	0	13	0.22											
Dibenz(a,h)anthracene	0.05	1	0.05	0.05	0	1.3	0.05											
Fluoranthene	0.05	1	0.46	0.46	0	1500	0.46											
Fluorene	0.05	1	0.05	0.05	0	2800	0.05											
Indeno(1,2,3,cd)pyrene	0.05	1	0.05	0.05	0	6.3	0.05											
Naphthalene	0.05	1	0.05	0.05	0	2.3	0.05											
Phenanthrene	0.05	1	0.37	0.37	0	1300	0.37											
Pyrene	0.05	1	0.46	0.46	0	3700	0.46											
Asbestos identified	Y/N						N											
FOC (dimensionless)	0.029	**(mean)**					0.029											
SOM (calculated)	5.00%	**(mean)**					5.00%											
pH (su)	7.7	**(mean)**					7.7											

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: TOPSOIL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24529-1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
TS denotes Topsoil

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
							All values in mg/kg unless otherwise stated Location & Depth	WS704	WS702	TP713	TP713	TP711	TP720	TP720	WS704	WS702	WS702	WS702	MPBH708	MPBH703	TP716	TP716	TP701	MPBH707	MPBH705	MPBH709	MPBH711	MPBH713	MPBH715
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.90**	**0.70-0.90**	**1.10**	**1.40-1.60**	**0.65**	**0.90**	**1.40-1.50**	**1.20**	**1.40-1.50**	**1.80-1.80**	**3.0**	**0.50**	**1.40**	**0.50**	**1.10**	**0.40**	**0.50**	**0.60**	**3.80**	**3.70**	**0.60**	**0.50-0.60**
Aliphatics EC5-EC6	0.01	22	0.001	0.001	0	42		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC6-EC8	0.01	22	0.001	0.001	0	100		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC8-EC10	0.01	22	0.001	71	1	27		0.001	0.001	0.001	71	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC10-EC12	0.01	22	1	42	0	48		3.3	1	1	7.7	1	3.4	1	4.7	1	42	1	1	1	16	1	1	1	1	2.1	1.8	1	1
Aliphatics >EC12-EC16	0.1	22	2	370	3	24		26	11	2	36	2	9	2	16	2	10	6.6	2	2	370	2	2	2	2	9	11	2	2
Aliphatics >EC16-EC35	0.1	22	10	1000	0	65000		120	75	10	130	10	24	10	72	10	10	11	10	10	1000	10	25	10	10	150	340	10	69
Aliphatics >EC35-EC44	0.1	22	8.4	88	0	65000		88	47	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	21	8.4	8.4	8.4	8.4	20	36	8.4	43
Aromatics EC5-EC7	0.01	22	0.001	3.7	0	370		0.02	0.001	0.041	3.7	0.001	0.001	0.001	0.55	0.068	0.01	0.037	0.001	0.001	0.001	0.05	0.001	0.001	0.001	0.001	0.01	0.001	0.001
Aromatics >EC7-EC8	0.01	22	0.001	5	0	860		0.095	0.001	0.001	5	0.001	0.001	0.001	1.2	0.023	0.007	0.021	0.001	0.001	0.001	0.023	0.001	0.001	0.001	0.001	0.012	0.001	0.001
Aromatics >EC8-EC10	0.01	22	0.001	30	0	47		0.51	0.001	0.14	30	0.001	0.001	0.001	0.78	0.033	0.008	0.16	0.001	0.001	0.001	0.054	0.001	0.001	0.001	0.001	0.038	0.001	0.001
Aromatics >EC10-EC12	0.01	22	1	370	1	250		200	15	4.7	190	1	1.9	21	370	15	22	78	1	1	7.3	16	1	1	1	1	44	3.5	1
Aromatics >EC12-EC16	0.1	22	2	1000	0	1800		1000	140	50	420	2	18	77	490	28	64	100	2	3.4	160	33	4.3	2	2	5.8	170	19	2
Aromatics >EC16-EC21	0.1	22	10	2700	1	1900		2700	770	240	1000	10	120	500	1700	140	400	730	10	16	470	67	17	10	10	22	1100	150	24
Aromatics >EC21-EC35	0.1	22	10	2100	1	1900		2100	890	290	860	10	190	920	1600	130	410	840	10	29	190	120	52	10	11	36	970	190	110
Aromatics >EC35-EC44	0.1	22	8.4	820	0	1900		210	110	26	290	8.4	39	820	240	20	47	110	8.4	8.4	9.4	8.4	23	8.4	8.4	8.4	81	36	87
							ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**																						
							Aliphatics EC5-EC6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
							Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
							Aliphatics >EC8-EC10	0.000	0.000	0.000	2.630	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
							Aliphatics >EC10-EC12	0.069	0.021	0.021	0.160	0.021	0.071	0.021	0.098	0.021	0.875	0.021	0.021	0.021	0.333	0.021	0.021	0.021	0.021	0.044	0.038	0.021	0.021
							Aliphatics >EC12-EC16	1.083	0.458	0.083	1.500	0.083	0.375	0.083	0.667	0.083	0.417	0.275	0.083	0.083	15.417	0.083	0.083	0.083	0.083	0.375	0.458	0.083	0.083
							Aliphatics >EC16-EC35	0.002	0.001	0.000	0.002	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.002	0.005	0.000	0.001
							Aliphatics >EC35-EC44	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.001
							Aromatics EC5-EC7	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
							Aromatics >EC7-EC8	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
							Aromatics >EC8-EC10	0.011	0.000	0.003	0.638	0.000	0.000	0.000	0.017	0.001	0.000	0.003	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000
							Aromatics >EC10-EC12	0.800	0.060	0.019	0.760	0.004	0.008	0.084	1.480	0.060	0.088	0.312	0.004	0.004	0.029	0.064	0.004	0.004	0.004	0.004	0.176	0.014	0.004
							Aromatics >EC12-EC16	0.556	0.078	0.028	0.233	0.001	0.010	0.043	0.272	0.016	0.036	0.056	0.001	0.002	0.089	0.018	0.002	0.001	0.001	0.003	0.094	0.011	0.001
							Aromatics >EC16-EC21	1.421	0.405	0.126	0.526	0.005	0.063	0.263	0.895	0.074	0.211	0.384	0.005	0.008	0.247	0.035	0.009	0.005	0.005	0.012	0.579	0.079	0.013
							Aromatics >EC21-EC35	1.105	0.468	0.153	0.453	0.005	0.100	0.484	0.842	0.068	0.216	0.442	0.005	0.015	0.100	0.063	0.027	0.005	0.006	0.019	0.511	0.100	0.058
							Aromatics >EC35-EC44	0.111	0.058	0.014	0.153	0.004	0.021	0.432	0.126	0.011	0.025	0.058	0.004	0.004	0.005	0.004	0.012	0.004	0.004	0.004	0.043	0.019	0.046
							Hazard Index for ali>C8-C16	**1.152**	**0.479**	**0.104**	**4.290**	**0.104**	**0.446**	**0.104**	**0.765**	**0.104**	**1.292**	**0.296**	**0.104**	**0.104**	**15.750**	**0.104**	**0.104**	**0.104**	**0.104**	**0.419**	**0.496**	**0.104**	**0.104**
							Hazard Index for aro>C8-C16	**1.366**	**0.138**	**0.050**	**1.632**	**0.005**	**0.018**	**0.127**	**1.769**	**0.076**	**0.124**	**0.371**	**0.005**	**0.006**	**0.118**	**0.083**	**0.006**	**0.005**	**0.005**	**0.007**	**0.271**	**0.025**	**0.005**
							Hazard Index for aro>C16-C35	**2.526**	**0.874**	**0.279**	**0.979**	**0.011**	**0.163**	**0.747**	**1.737**	**0.142**	**0.426**	**0.826**	**0.011**	**0.024**	**0.347**	**0.098**	**0.036**	**0.011**	**0.011**	**0.031**	**1.089**	**0.179**	**0.071**

Considered additive (Aliphatics >EC8-EC10, Aliphatics >EC10-EC12, Aliphatics >EC12-EC16)

Considered additive (Aromatics >EC8-EC10, Aromatics >EC10-EC12, Aromatics >EC12-EC16)

Considered additive (Aromatics >EC16-EC21, Aromatics >EC21-EC35)

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 24-23857-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21

Legend:
Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG	MG										
All values in mg/kg unless otherwise stated						Location & Depth	MPBH703	MPBH708	MPBH707	MPBH705										
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.40-1.40**	**0.5**	**0.50-0.50**	**0.60-0.60**										
Aliphatics EC5-EC6	0.01	4	0.001	0.001	0	42	0.001	0.001	0.001	0.001										
Aliphatics >EC6-EC8	0.01	4	0.001	0.001	0	100	0.001	0.001	0.001	0.001										
Aliphatics >EC8-EC10	0.01	4	0.001	0.001	0	27	0.001	0.001	0.001	0.001										
Aliphatics >EC10-EC12	0.01	4	1	1	0	48	1	1	1	1										
Aliphatics >EC12-EC16	0.1	4	2	2	0	24	2	2	2	2										
Aliphatics >EC16-EC35	0.1	4	10	10	0	65000	10	10	10	10										
Aliphatics >EC35-EC44	0.1	4	8.4	8.4	0	65000	8.4	8.4	8.4	8.4										
Aromatics EC5-EC7	0.01	4	0.001	0.001	0	370	0.001	0.001	0.001	0.001										
Aromatics >EC7-EC8	0.01	4	0.001	0.001	0	860	0.001	0.001	0.001	0.001										
Aromatics >EC8-EC10	0.01	4	0.001	0.001	0	47	0.001	0.001	0.001	0.001										
Aromatics >EC10-EC12	0.01	4	1	1	0	250	1	1	1	1										
Aromatics >EC12-EC16	0.1	4	2	3.4	0	1800	3.4	2	2	2										
Aromatics >EC16-EC21	0.1	4	10	16	0	1900	16	10	10	10										
Aromatics >EC21-EC35	0.1	4	10	29	0	1900	29	10	10	11										
Aromatics >EC35-EC44	0.1	4	8.4	8.4	0	1900	8.4	8.4	8.4	8.4										
						ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**													
						Aliphatics EC5-EC6	0.000	0.000	0.000	0.000										
						Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000										
						Aliphatics >EC8-EC10	0.000	0.000	0.000	0.000										
					Considered additive	Aliphatics >EC10-EC12	0.021	0.021	0.021	0.021										
						Aliphatics >EC12-EC16	0.083	0.083	0.083	0.083										
						Aliphatics >EC16-EC35	0.000	0.000	0.000	0.000										
						Aliphatics >EC35-EC44	0.000	0.000	0.000	0.000										
						Aromatics EC5-EC7	0.000	0.000	0.000	0.000										
						Aromatics >EC7-EC8	0.000	0.000	0.000	0.000										
						Aromatics >EC8-EC10	0.000	0.000	0.000	0.000										
					Considered additive	Aromatics >EC10-EC12	0.004	0.004	0.004	0.004										
						Aromatics >EC12-EC16	0.002	0.001	0.001	0.001										
						Aromatics >EC16-EC21	0.008	0.005	0.005	0.005										
					Considered additive	Aromatics >EC21-EC35	0.015	0.005	0.005	0.006										
						Aromatics >EC35-EC44	0.004	0.004	0.004	0.004										
						Hazard Index for ali>C8-C16	**0.104**	**0.104**	**0.104**	**0.104**										
						Hazard Index for aro>C8-C16	**0.006**	**0.005**	**0.005**	**0.005**										
						Hazard Index for aro>C16-C35	**0.024**	**0.011**	**0.011**	**0.011**										

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: SITE WON GRAVEL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-26273-1, 21-24726-1, 21-25355-1, 21-27101

Legend: Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.
Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	Soil Type	GT	GT	GT	GT	GT	GT	GT	GT	GT	GT	GT
							All values in mg/kg unless otherwise stated **Location & Depth**	TP715	TP720	WS704	WS702	WS703	MPBH704	TP716	MPBH705	MPBH704	MPBH711	MPBH715
								1.25	1.75	1.80	3.50	1.40	1.20	1.80	2.50	4.80	4.80	2.50
Aliphatics EC5-EC6	0.01	11	0.001	0.001	0	42		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC6-EC8	0.01	11	0.001	0.001	0	100		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC8-EC10	0.01	11	0.001	0.001	0	27		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC10-EC12	0.01	11	1	1	0	48		1	1	1	1	1	1	1	1	1	1	1
Aliphatics >EC12-EC16	0.1	11	2	2	0	24		2	2	2	2	2	2	2	2	2	2	2
Aliphatics >EC16-EC35	0.1	11	10	10	0	65000		10	10	10	10	10	10	10	10	10	10	10
Aliphatics >EC35-EC44	0.1	11	8.4	8.4	0	65000		8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Aromatics EC5-EC7	0.01	11	0.001	5.5	0	370		0.001	5.5	0.011	0.001	0.001	0.001	0.001	0.012	0.001	0.001	0.001
Aromatics >EC7-EC8	0.01	11	0.001	5.4	0	860		0.001	5.4	0.007	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aromatics >EC8-EC10	0.01	11	0.001	0.066	0	47		0.001	0.066	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aromatics >EC10-EC12	0.01	11	1	17	0	250		3.9	13	1	1	17	1	1	1	1	1	1
Aromatics >EC12-EC16	0.1	11	2	79	0	1800		8.2	34	2	2	79	2	2	2	2	2	2
Aromatics >EC16-EC21	0.1	11	10	270	0	1900		20	72	10	10	270	10	10	10	10	10	10
Aromatics >EC21-EC35	0.1	11	10	240	0	1900		20	79	10	10	240	10	10	10	10	10	10
Aromatics >EC35-EC44	0.1	11	8.4	31	0	1900		8.4	12	8.4	8.4	31	8.4	8.4	8.4	8.4	8.4	8.4

	ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH FRACTION										
	Aliphatics EC5-EC6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aliphatics >EC8-EC10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aliphatics >EC10-EC12	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Considered additive	Aliphatics >EC12-EC16	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083
	Aliphatics >EC16-EC35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC35-EC44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aromatics EC5-EC7	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aromatics >EC7-EC8	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aromatics >EC8-EC10	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aromatics >EC10-EC12	0.016	0.052	0.004	0.004	0.068	0.004	0.004	0.004	0.004	0.004	0.004
Considered additive	Aromatics >EC12-EC16	0.005	0.019	0.001	0.001	0.044	0.001	0.001	0.001	0.001	0.001	0.001
	Aromatics >EC16-EC21	0.011	0.038	0.005	0.005	0.142	0.005	0.005	0.005	0.005	0.005	0.005
Considered additive	Aromatics >EC21-EC35	0.011	0.042	0.005	0.005	0.126	0.005	0.005	0.005	0.005	0.005	0.005
	Aromatics >EC35-EC44	0.004	0.006	0.004	0.004	0.016	0.004	0.004	0.004	0.004	0.004	0.004
	Hazard Index for ali>C8-C16	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**
	Hazard Index for aro>C8-C16	**0.020**	**0.072**	**0.005**	**0.005**	**0.112**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
	Hazard Index for aro>C16-C35	**0.021**	**0.079**	**0.011**	**0.011**	**0.268**	**0.011**	**0.011**	**0.011**	**0.011**	**0.011**	**0.011**

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: **Human health - residential without plant uptake (1%SOM)**

Data set: GLACIAL TILL

Client: Crowning Developments Limited

Site: GOULD STREET

Job no.: C21353

Lab. report no(s).: 21-24547-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21-28774-1, 21-

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	CF	CF	CF	CF	CF							
					All values in mg/kg unless otherwise stated	Location & Depth	MPBH706	MPBH713	MPBH707	MPBH711	MPBH702							
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**16.80-16.80**	**16.70-16.70**	**16.50-16.50**	**18.30-18.30**	**19.80-19.80**							
Aliphatics EC5-EC6	0.01	5	0.001	0.001	0	42	0.001	0.001	0.001	0.001	0.001							
Aliphatics >EC6-EC8	0.01	5	0.001	0.001	0	100	0.001	0.001	0.001	0.001	0.001							
Aliphatics >EC8-EC10	0.01	5	0.001	0.001	0	27	0.001	0.001	0.001	0.001	0.001							
Aliphatics >EC10-EC12	0.01	5	1	1	0	48	1	1	1	1	1							
Aliphatics >EC12-EC16	0.1	5	2	2	0	24	2	2	2	2	2							
Aliphatics >EC16-EC35	0.1	5	10	10	0	65000	10	10	10	10	10							
Aliphatics >EC35-EC44	0.1	5	8.4	8.4	0	65000	8.4	8.4	8.4	8.4	8.4							
Aromatics EC5-EC7	0.01	5	0.001	0.001	0	370	0.001	0.001	0.001	0.001	0.001							
Aromatics >EC7-EC8	0.01	5	0.001	0.001	0	860	0.001	0.001	0.001	0.001	0.001							
Aromatics >EC8-EC10	0.01	5	0.001	0.001	0	47	0.001	0.001	0.001	0.001	0.001							
Aromatics >EC10-EC12	0.01	5	1	1	0	250	1	1	1	1	1							
Aromatics >EC12-EC16	0.1	5	2	2	0	1800	2	2	2	2	2							
Aromatics >EC16-EC21	0.1	5	10	10	0	1900	10	10	10	10	10							
Aromatics >EC21-EC35	0.1	5	10	15	0	1900	10	10	10	15	10							
Aromatics >EC35-EC44	0.1	5	8.4	8.4	0	1900	8.4	8.4	8.4	8.4	8.4							

	ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH FRACTION				
	Aliphatics EC5-EC6	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000	0.000
Considered additive	Aliphatics >EC8-EC10	0.000	0.000	0.000	0.000	0.000
Considered additive	Aliphatics >EC10-EC12	0.021	0.021	0.021	0.021	0.021
Considered additive	Aliphatics >EC12-EC16	0.083	0.083	0.083	0.083	0.083
	Aliphatics >EC16-EC35	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC35-EC44	0.000	0.000	0.000	0.000	0.000
	Aromatics EC5-EC7	0.000	0.000	0.000	0.000	0.000
	Aromatics >EC7-EC8	0.000	0.000	0.000	0.000	0.000
Considered additive	Aromatics >EC8-EC10	0.000	0.000	0.000	0.000	0.000
Considered additive	Aromatics >EC10-EC12	0.004	0.004	0.004	0.004	0.004
Considered additive	Aromatics >EC12-EC16	0.001	0.001	0.001	0.001	0.001
Considered additive	Aromatics >EC16-EC21	0.005	0.005	0.005	0.005	0.005
Considered additive	Aromatics >EC21-EC35	0.005	0.005	0.005	0.008	0.005
	Aromatics >EC35-EC44	0.004	0.004	0.004	0.004	0.004
	Hazard Index for ali>C8-C16	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**
	Hazard Index for aro>C8-C16	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**
	Hazard Index for aro>C16-C35	**0.011**	**0.011**	**0.011**	**0.013**	**0.011**

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: CHESTER FORMATION
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-26273-1, 21-28774-1, 21-27101, 21-27642, 21-29854

Legend: Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.
Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
CF denotes Chester Formation

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
							All values in mg/kg unless otherwise stated Location & Depth	WS704	WS702	TP713	TP713	TP711	TP720	TP720	WS704	WS702	WS702	WS702	MPBH708	MPBH703	TP716	TP716	TP701	MPBH707	MPBH705	MPBH709	MPBH711	MPBH713	MPBH715
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.90**	**0.70-0.90**	**1.10**	**1.40-1.60**	**0.65**	**0.90**	**1.40-1.50**	**1.20**	**1.40-1.50**	**1.80**	**3.0**	**0.50**	**1.40**	**0.50**	**1.10**	**0.40**	**0.50**	**0.60**	**3.80**	**3.70**	**0.60**	**0.50-0.60**
Benzene	0.001	22	0.001	3.7	2	0.38		0.02	0.001	0.041	3.7	0.001	0.001	0.001	0.55	0.068	0.0099	0.037	0.001	0.001	0.001	0.051	0.001	0.001	0.001	0.001	0.01	0.001	0.001
Toluene	0.001	22	0.001	5	0	860		0.095	0.001	0.001	5	0.001	0.001	0.001	1.2	0.023	0.0074	0.021	0.001	0.001	0.001	0.023	0.001	0.001	0.001	0.001	0.012	0.001	0.001
Ethylbenzene	0.001	22	0.001	3.3	0	240		0.017	0.001	0.035	3.3	0.001	0.001	0.001	0.001	0.0077	0.001	0.02	0.001	0.001	0.001	0.02	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Xylene, o-	0.001	22	0.001	5.9	0	85		0.093	0.001	0.014	5.9	0.001	0.001	0.001	0.27	0.0091	0.001	0.03	0.001	0.001	0.001	0.014	0.001	0.001	0.001	0.001	0.016	0.001	0.001
Xylene, m- & p-	0.001	22	0.001	12	0	76		0.12	0.001	0.013	12	0.001	0.001	0.001	0.001	0.017	0.001	0.054	0.001	0.001	0.001	0.014	0.001	0.001	0.001	0.001	0.022	0.001	0.001
MTBE	0.001	22	0.001	0.001	0	100		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Iso-propylbenzene	0.001	12	0.001	0.44	0	17		0.001	0.001	0.001	0.44		0.001	0.001	0.001		0.001	0.001				0.001					0.001	0.001		
Propylbenzene	0.01	0	0	0	0	57																							
1,2,4-Trimethylbenzene	0.001	13	0.001	6	1	0.58		0.15	0.001	0.078	6		0.001	0.001	0.12	0.0076	0.033	0.001				0.0061					0.001	0.001		
Bromobenzene	0.001	13	0.001	0.001	0	1.3		0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001				0.001					0.001	0.001		
Chlorobenzene	0.001	13	0.001	0.001	0	0.47		0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001				0.001					0.001	0.001		
1,2-Dichlorobenzene	0.1	13	0.1	0.1	0	24		0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1				0.1					0.1	0.1		
1,3-Dichlorobenzene	0.2	13	0.2	0.2	0	0.44		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		
1,4-Dichlorobenzene	0.2	13	0.2	0.2	0	60		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		
Hexachlorobenzene	0.3	0	0	0	0	0.2																							
Pentachlorobenzene	0.01	0	0	0	0	20																							
1,2,3-trichlorobenzene	0.001	13	0.001	0.001	0	1.5		0.001	0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001				0.001					0.001	0.001		
1,2,4-trichlorobenzene	0.3	13	0.3	0.3	0	2.6		0.3	0.3	0.3	0.3		0.3	0.3	0.3	0.3	0.3	0.3				0.3					0.3	0.3		
1,3,5-trichlorobenzene	0.01	0	0	0	0	0.33																							
1,2,3,4-tetrachlorobenzene	0.01	0	0	0	0	24																							
1,2,3,5-tetrachlorobenzene	0.01	0	0	0	0	0.75																							
1,2,4,5-tetrachlorobenzene	0.01	0	0	0	0	0.73																							

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 24-23857-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 2

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG	MG								
All values in mg/kg unless otherwise stated						Location & Depth	MPBH703	MPBH708	MPBH707	MPBH705								
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.40-1.40**	**0.5**	**0.50-0.50**	**0.60-0.60**								
Benzene	0.001	4	0.001	0.001	0	0.38	0.001	0.001	0.001	0.001								
Toluene	0.001	4	0.001	0.001	0	860	0.001	0.001	0.001	0.001								
Ethylbenzene	0.001	4	0.001	0.001	0	240	0.001	0.001	0.001	0.001								
Xylene, o-	0.001	4	0.001	0.001	0	85	0.001	0.001	0.001	0.001								
Xylene, m- & p-	0.001	4	0.001	0.001	0	76	0.001	0.001	0.001	0.001								
MTBE	0.001	4	0.001	0.001	0	100	0.001	0.001	0.001	0.001								
Iso-propylbenzene	0.001	0	0	0	0	17												
Propylbenzene	0.01	0	0	0	0	57												
1,2,4-Trimethylbenzene	0.001	0	0	0	0	0.58												
Bromobenzene	0.001	0	0	0	0	1.3												
Chlorobenzene	0.001	0	0	0	0	0.47												
1,2-Dichlorobenzene	0.1	0	0	0	0	24												
1,3-Dichlorobenzene	0.2	0	0	0	0	0.44												
1,4-Dichlorobenzene	0.2	0	0	0	0	60												
Hexachlorobenzene	0.3	0	0	0	0	0.2												
Pentachlorobenzene	0.01	0	0	0	0	20												
1,2,3-trichlorobenzene	0.001	0	0	0	0	1.5												
1,2,4-trichlorobenzene	0.3	0	0	0	0	2.6												
1,3,5-trichlorobenzene	0.01	0	0	0	0	0.33												
1,2,3,4-tetrachlorobenzene	0.01	0	0	0	0	24												
1,2,3,5-tetrachlorobenzene	0.01	0	0	0	0	0.75												
1,2,4,5-tetrachlorobenzene	0.01	0	0	0	0	0.73												

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: SITE WON GRAVEL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-26273-1, 21-24726-1, 21-25355-1, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	GT	GT	GT	GT	GT	GT	GT	GT	GT	GT	GT
All values in mg/kg unless otherwise stated						Location & Depth	TP715	TP720	WS704	WS702	WS703	MPBH704	TP716	MPBH705	MPBH704	MPBH711	MPBH715
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.25-1.25**	**1.75-1.75**	**1.80-1.80**	**3.50-3.50**	**1.40-1.40**	**1.20-1.20**	**1.80-1.80**	**2.50-2.50**	**4.80-4.80**	**4.80-4.80**	**2.50-2.50**
Benzene	0.001	11	0.001	0.012	0	0.38	0.001	0.0055	0.011	0.001	0.001	0.001	0.001	0.012	0.001	0.001	0.001
Toluene	0.001	11	0.001	0.007	0	130	0.001	0.0054	0.007	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Ethylbenzene	0.001	11	0.001	0.0048	0	240	0.001	0.0048	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Xylene, o-	0.001	11	0.001	0.01	0	85	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Xylene, m- & p-	0.001	11	0.001	0.015	0	76	0.001	0.015	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MTBE	0.001	11	0.001	0.001	0	100	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Iso-propylbenzene	0.001	7	0.001	0.001	0	17		0.001	0.001	0.001	0.001		0.001		0.001	0.001	
Propylbenzene	0.01	0	0	0	0	57											
1,2,4-Trimethylbenzene	0.001	6	0.001	0.023	0	0.58		0.023	0.001		0.001		0.001		0.001	0.001	
Bromobenzene	0.001	6	0.001	0.001	0	1.3		0.001	0.001		0.001		0.001		0.001	0.001	
Chlorobenzene	0.001	5	0.001	0.001	0	0.47		0.001	0.001		0.001		0.001		0.001	0	
1,2-Dichlorobenzene	0.1	6	0.1	0.1	0	24		0.1	0.1		0.1		0.1		0.1	0.1	
1,3-Dichlorobenzene	0.2	6	0.2	0.2	0	0.44		0.2	0.2		0.2		0.2		0.2	0.2	
1,4-Dichlorobenzene	0.2	6	0.2	0.2	0	60		0.2	0.2		0.2		0.2		0.2	0.2	
Hexachlorobenzene	0.3	6	0.3	0.3	6	0.2		0.3	0.3		0.3		0.3		0.3	0.3	
Pentachlorobenzene	0.01	0	0	0	0	20											
1,2,3-trichlorobenzene	0.001	6	0.001	0.001	0	1.5		0.001	0.001		0.001		0.001		0.001	0.001	
1,2,4-trichlorobenzene	0.3	6	0.3	0.3	0	2.6		0.3	0.3		0.3		0.3		0.3	0.3	
1,3,5-trichlorobenzene	0.01	0	0	0	0	0.33											
1,2,3,4-tetrachlorobenzene	0.01	0	0	0	0	24											
1,2,3,5-tetrachlorobenzene	0.01	0	0	0	0	0.75											
1,2,4,5-tetrachlorobenzene	0.01	0	0	0	0	0.73											

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-24547-1, 21-24529-1, 21-24726-1, 21-25355-1, 21-26273-1, 21-28774-1, 2

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).
GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	CF	CF	CF	CF	CF								
							All values in mg/kg unless otherwise stated **Location & Depth**	MPBH706	MPBH713	MPBH707	MPBH711	MPBH702								
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**16.80-16.80**	**16.70-16.70**	**16.50-16.50**	**18.30-18.30**	**19.80-19.80**								
Benzene	0.001	5	0.001	0.001	0	0.38		0.001	0.001	0.001	0.001	0.001								
Toluene	0.001	5	0.001	0.001	0	860		0.001	0.001	0.001	0.001	0.001								
Ethylbenzene	0.001	5	0.001	0.001	0	240		0.001	0.001	0.001	0.001	0.001								
Xylene, o-	0.001	5	0.001	0.001	0	85		0.001	0.001	0.001	0.001	0.001								
Xylene, m- & p-	0.001	5	0.001	0.001	0	76		0.001	0.001	0.001	0.001	0.001								
MTBE	0.001	5	0.001	0.001	0	100		0.001	0.001	0.001	0.001	0.001								
Iso-propylbenzene	0.001	1	0.001	0.001	0	17		0.001												
Propylbenzene	0.01	0	0	0	0	57														
1,2,4-Trimethylbenzene	0.001	1	0.001	0.001	0	0.58		0.001												
Bromobenzene	0.001	1	0.001	0.001	0	1.3		0.001												
Chlorobenzene	0.001	1	0.001	0.001	0	0.47		0.001												
1,2-Dichlorobenzene	0.1	1	0.1	0.1	0	24		0.1												
1,3-Dichlorobenzene	0.2	1	0.2	0.2	0	0.44		0.2												
1,4-Dichlorobenzene	0.2	1	0.2	0.2	0	60		0.2												
Hexachlorobenzene	0.3	1	0.3	0.3	1	0.2		0.3												
Pentachlorobenzene	0.01	0	0	0	0	20														
1,2,3-trichlorobenzene	0.001	1	0.001	0.001	0	1.5		0.001												
1,2,4-trichlorobenzene	0.3	1	0.3	0.3	0	2.6		0.3												
1,3,5-trichlorobenzene	0.01	0	0	0	0	0.33														
1,2,3,4-tetrachlorobenzene	0.01	0	0	0	0	24														
1,2,3,5-tetrachlorobenzene	0.01	0	0	0	0	0.75														
1,2,4,5-tetrachlorobenzene	0.01	0	0	0	0	0.73														

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: CHESTER FORMATION
Client: Crowning Developments Limited
Site: GOULD STREET
Job no.: C21353
Lab. report no(s).: 21-26273-1, 21-28774-1, 21-27101, 21-27642, 21-29854

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

CF denotes Chester Formation

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
						All values in mg/kg unless otherwise stated **Location & Depth**	TP713	TP713	TP720	TP720	WS704	WS702	WS704	WS702	WS702	WS703	TP716	MPBH709	MPBH711
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.10-1.10**	**1.40-1.60**	**0.90-0.90**	**1.40-1.50**	**0.20-0.90**	**0.70-0.90**	**1.20-1.20**	**1.80-1.80**	**3.00-3.00**	**1.40-1.40**	**1.10-1.10**	**3.80-3.80**	**3.70-3.70**
Bromodichloromethane	0.001	13	0.001	0.001	0	0.027	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Bromoform	0.01	0	0	0	0	7.4													
Chloroethane	0.001	13	0.001	0.001	0	12	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Chloroethene (aka vinyl chloride)	0.001	13	0.001	0.001	13	0.00077	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Chloromethane	0.001	13	0.001	0.001	0	0.012	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1,1-Dichloroethane	0.001	13	13	13	0	3.6	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1,2-Dichloroethane	0.001	13	0.001	0.001	0	0.0092	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1,1-Dichloroethene	0.001	13	0.001	0.001	0	0.33	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Cis 1,2 Dichloroethene	0.001	13	0.001	0.001	0	0.17	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Trans 1,2 Dichloroethene	0.001	13	0.001	0.001	0	0.28	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Dichloromethane	0.01	0	0	0	0	3													
1,2-Dichloropropane	0.001	13	0.001	0.001	0	0.034	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Hexachloroethane	0.05	13	0.05	0.05	0	0.31	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
Tetrachloroethene	0.001	13	0.001	43	2	1.5	0.001	0.001	0.001	0.001	0.001	0.001	33	43	0.001	0.001	0.001	0.001	0.001
1,1,1,2-Tetrachloroethane	0.001	13	0.001	0.001	0	1.5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1,1,2,2-Tetrachloroethane	0.001	13	0.001	0.001	0	4.1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Tetrachloromethane	0.001	13	0.001	0.001	0	0.026	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Trichloroethene	0.001	13	0.001	0.001	0	0.16	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1,1,1-Trichloroethane	0.001	13	0.001	0.001	0	9	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1,1,2 Trichloroethane	0.001	13	0.001	0.001	0	1.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Trichloromethane	0.001	13	0.001	0.001	0	1.3	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-23857, 21-24529, 21-24547 21-24726, 21-26273, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG											
All values in mg/kg unless otherwise stated						Location & Depth	MPBH709											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**3.80**											
Bromodichloromethane	0.001	1	0.001	0.001	0	0.027	0.001											
Bromoform	0.01	0	0	0	0	7.4												
Chloroethane	0.001	1	0.001	0.001	0	12	0.001											
Chloroethene (aka vinyl chloride)	0.001	1	0.001	0.001	1	0.00077	0.001											
Chloromethane	0.001	1	0.001	0.001	0	0.012	0.001											
1,1-Dichloroethane	0.001	1	1	1	0	3.6	0.001											
1,2-Dichloroethane	0.001	1	0.001	0.001	0	0.0092	0.001											
1,1-Dichloroethene	0.001	1	0.001	0.001	0	0.33	0.001											
Cis 1,2 Dichloroethene	0.001	1	0.001	0.001	0	0.17	0.001											
Trans 1,2 Dichloroethene	0.001	1	0.001	0.001	0	0.28	0.001											
Dichloromethane	0.01	0	0	0	0	3												
1,2-Dichloropropane	0.001	1	0.001	0.001	0	0.034	0.001											
Hexachloroethane	0.05	1	0.05	0.05	0	0.31	0.05											
Tetrachloroethene	0.001	1	0.001	0.001	0	1.5	0.001											
1,1,1,2-Tetrachloroethane	0.001	1	0.001	0.001	0	1.5	0.001											
1,1,2,2-Tetrachloroethane	0.001	1	0.001	0.001	0	4.1	0.001											
Tetrachloromethane	0.001	1	0.001	0.001	0	0.026	0.001											
Trichloroethene	0.001	1	0.001	0.001	0	0.16	0.001											
1,1,1-Trichloroethane	0.001	1	0.001	0.001	0	9	0.001											
1,1,2 Trichloroethane	0.001	1	0.001	0.001	0	1.3	0.001											
Trichloromethane	0.001	1	0.001	0.001	0	1.3	0.001											

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: SITE WON GRAVELS
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	GT	GT	GT	GT	GT	GT						
		All values in mg/kg unless otherwise stated				Location & Depth	TP720	WS704	WS702	TP716	MPBH704	MPBH711						
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.75-1.75**	**1.80-1.80**	**3.50-3.50**	**1.80-1.80**	**4.80-4.80**	**4.80-4.80**						
Bromodichloromethane	0.001	6	0.001	0.001	0	0.027	0.001	0.001	0.001	0.001	0.001	0.001						
Bromoform	0.01	0	0	0	0	7.4												
Chloroethane	0.001	6	0.001	0.001	0	12	0.001	0.001	0.001	0.001	0.001	0.001						
Chloroethene (aka vinyl chloride)	0.001	6	0.001	0.001	6	0.00077	0.001	0.001	0.001	0.001	0.001	0.001						
Chloromethane	0.001	6	0.001	0.001	0	0.012	0.001	0.001	0.001	0.001	0.001	0.001						
1,1-Dichloroethane	0.001	6	6	6	0	3.6	0.001	0.001	0.001	0.001	0.001	0.001						
1,2-Dichloroethane	0.001	6	0.001	0.001	0	0.0092	0.001	0.001	0.001	0.001	0.001	0.001						
1,1-Dichloroethene	0.001	6	0.001	0.001	0	0.33	0.001	0.001	0.001	0.001	0.001	0.001						
Cis 1,2 Dichloroethene	0.001	6	0.001	0.001	0	0.17	0.001	0.001	0.001	0.001	0.001	0.001						
Trans 1,2 Dichloroethene	0.001	6	0.001	0.001	0	0.28	0.001	0.001	0.001	0.001	0.001	0.001						
Dichloromethane	0.01	0	0	0	0	3												
1,2-Dichloropropane	0.001	6	0.001	0.001	0	0.034	0.001	0.001	0.001	0.001	0.001	0.001						
Hexachloroethane	0.05	6	0.05	0.05	0	0.31	0.05	0.05	0.05	0.05	0.05	0.05						
Tetrachloroethene	0.001	6	0.001	54	1	1.5	0.001	54	0.001	0.001	0.001	0.001						
1,1,1,2-Tetrachloroethane	0.001	6	0.001	0.001	0	1.5	0.001	0.001	0.001	0.001	0.001	0.001						
1,1,2,2-Tetrachloroethane	0.001	6	0.001	0.001	0	4.1	0.001	0.001	0.001	0.001	0.001	0.001						
Tetrachloromethane	0.001	6	0.001	0.001	0	0.026	0.001	0.001	0.001	0.001	0.001	0.001						
Trichloroethene	0.001	6	0.001	0.001	0	0.16	0.001	0.001	0.001	0.001	0.001	0.001						
1,1,1-Trichloroethane	0.001	6	0.001	0.001	0	9	0.001	0.001	0.001	0.001	0.001	0.001						
1,1,2 Trichloroethane	0.001	6	0.001	0.001	0	1.3	0.001	0.001	0.001	0.001	0.001	0.001						
Trichloromethane	0.001	6	0.001	0.001	0	1.3	0.001	0.001	0.001	0.001	0.001	0.001						

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-24529, 21-24726, 21-26273, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	CF												
						All values in mg/kg unless otherwise stated Location & Depth	MPBH706												
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**16.80**												
Bromodichloromethane	0.001	1	0.001	0.001	0	0.027	0.001												
Bromoform	0.01	0	0	0	0	7.4													
Chloroethane	0.001	1	0.001	0.001	0	12	0.001												
Chloroethene (aka vinyl chloride)	0.001	1	0.001	0.001	1	0.00077	0.001												
Chloromethane	0.001	1	0.001	0.001	0	0.012	0.001												
1,1-Dichloroethane	0.001	1	1	1	0	3.6	0.001												
1,2-Dichloroethane	0.001	1	0.001	0.001	0	0.0092	0.001												
1,1-Dichloroethene	0.001	1	0.001	0.001	0	0.33	0.001												
Cis 1,2 Dichloroethene	0.001	1	0.001	0.001	0	0.17	0.001												
Trans 1,2 Dichloroethene	0.001	1	0.001	0.001	0	0.28	0.001												
Dichloromethane	0.01	0	0	0	0	3													
1,2-Dichloropropane	0.001	1	0.001	0.001	0	0.034	0.001												
Hexachloroethane	0.05	1	0.05	0.05	0	0.31	0.05												
Tetrachloroethene	0.001	1	0.001	0.001	0	1.5	0.001												
1,1,1,2-Tetrachloroethane	0.001	1	0.001	0.001	0	1.5	0.001												
1,1,2,2-Tetrachloroethane	0.001	1	0.001	0.001	0	4.1	0.001												
Tetrachloromethane	0.001	1	0.001	0.001	0	0.026	0.001												
Trichloroethene	0.001	1	0.001	0.001	0	0.16	0.001												
1,1,1-Trichloroethane	0.001	1	0.001	0.001	0	9	0.001												
1,1,2 Trichloroethane	0.001	1	0.001	0.001	0	1.3	0.001												
Trichloromethane	0.001	1	0.001	0.001	0	1.3	0.001												

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: CHESTER FORMATION
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-26273

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).
CF denotes Chester Formation

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
					All values in mg/kg unless otherwise stated	Location & Depth	TP713	TP713	TP720	TP720	WS704	WS702	WS704	WS702	WS702	WS703	TP716	MPBH709	MPBH711
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.10-1.10**	**1.40-1.60**	**0.90-0.90**	**1.40-1.50**	**0.20-0.90**	**0.70-0.90**	**1.20-1.20**	**1.80-1.80**	**3.00-3.00**	**1.40-1.40**	**1.10-1.10**	**3.80-3.80**	**3.70-3.70**
2-Chlorophenol	0.1	13	0.1	0.1	0	110	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2,4-Dichlorophenol	0.3	13	0.3	0.3	0	94	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2,4-Dimethylphenol	0.3	13	0.3	0.3	0	300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
2-Methylphenol	0.3	13	0.3	0.3	0	5300	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
3-Methylphenol	0.01	0	0	0	0	6800													
4-Methylphenol	0.2	13	0.2	0.2	0	5400	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
Pentachlorophenol	0.01	0	0	0	0	37													
2,3,4,6-Tetrachlorophenol	0.01	0	0	0	0	140													
2,4,6-Trichlorophenol	0.1	13	0.1	0.1	0	140	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bis (2-ethylhexyl) phthalate	0.01	0	0	0	0	3900													
Butyl benzyl phthalate	0.3	13	0.3	0.3	0	61000	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Diethyl Phthalate	0.2	13	0.2	0.2	0	14	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
Di-n-butyl phthalate	0.01	0	0	0	0	650													
Di-n-octyl phthalate	0.01	0	0	0	0	4900													
						ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH SUBSTANCE**												
						2-Chlorophenol	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909
						2,4-Dichlorophenol	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191
					Considered additive (chlorophenols)	2,3,4,6-Tetrachlorophenol													
						2,4,6-Trichlorophenol	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714
						2-Methylphenol	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05
					Considered additive (cresols)	3-Methylphenol													
						4-Methylphenol	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05
						Hazard Index for chlorophenols													
						Hazard Index for cresols													

Risk parameter: Human health - residential without plant uptake (1%SOM

Data set: MADE GROUND

Client: Crowning Developments Limited

Site: Gould Street, Manchester

Job no.: C21353

Lab. report no(s).: 21-23857, 21-24529, 21-24547, 21-24726, 21-26273, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG									
						All values in mg/kg unless otherwise stated Location & Depth	MPBH709									
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**3.80**									
2-Chlorophenol	0.1	1	0.1	0.1	0	110	0.1									
2,4-Dichlorophenol	0.3	1	0.3	0.3	0	94	0.3									
2,4-Dimethylphenol	0.3	1	0.3	0.3	0	300	0.3									
2-Methylphenol	0.3	1	0.3	0.3	0	5300	0.3									
3-Methylphenol	0.01	0	0	0	0	6800										
4-Methylphenol	0.2	1	0.2	0.2	0	5400	0.2									
Pentachlorophenol	0.01	0	0	0	0	37										
2,3,4,6-Tetrachlorophenol	0.01	0	0	0	0	140										
2,4,6-Trichlorophenol	0.1	1	0.1	0.1	0	140	0.1									
Bis (2-ethylhexyl) phthalate	0.01	0	0	0	0	3900										
Butyl benzyl phthalate	0.3	1	0.3	0.3	0	61000	0.3									
Diethyl Phthalate	0.2	1	0.2	0.2	0	14	0.2									
Di-n-butyl phthalate	0.01	0	0	0	0	650										
Di-n-octyl phthalate	0.01	0	0	0	0	4900										

		ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH SUBSTANCE**	
		2-Chlorophenol	0.000909	
		2,4-Dichlorophenol	0.003191	
	Considered additive (chlorophenols)	2,3,4,6-Tetrachlorophenol		
		2,4,6-Trichlorophenol	0.000714	
		2-Methylphenol	5.66E-05	
	Considered additive (cresols)	3-Methylphenol		
		4-Methylphenol	3.7E-05	
		Hazard Index for chlorophenols		
		Hazard Index for cresols		

Risk parameter: Human health - residential without plant uptake (1%SOI

Data set: SITE WON GRAVELS

Client: Crowning Developments Limited

Site: Gould Street, Manchester

Job no.: C21353

Lab. report no(s).: 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	GT	GT	GT	GT	GT	GT					
All values in mg/kg unless otherwise stated						Location & Depth	TP720	WS704	WS702	TP716	MPBH704	MPBH711					
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.75**	**1.80**	**3.50**	**1.80**	**4.80**	**4.80**					
2-Chlorophenol	0.1	6	0.1	0.1	0	110	0.1	0.1	0.1	0.1	0.1	0.1					
2,4-Dichlorophenol	0.3	6	0.3	0.3	0	94	0.3	0.3	0.3	0.3	0.3	0.3					
2,4-Dimethylphenol	0.3	6	0.3	0.3	0	300	0.3	0.3	0.3	0.3	0.3	0.3					
2-Methylphenol	0.3	6	0.3	0.3	0	5300	0.3	0.3	0.3	0.3	0.3	0.3					
3-Methylphenol	0.01	0	0	0	0	6800											
4-Methylphenol	0.2	6	0.2	0.2	0	5400	0.2	0.2	0.2	0.2	0.2	0.2					
Pentachlorophenol	0.01	0	0	0	0	37											
2,3,4,6-Tetrachlorophenol	0.01	0	0	0	0	140											
2,4,6-Trichlorophenol	0.1	6	0.1	0.1	0	140	0.1	0.1	0.1	0.1	0.1	0.1					
Bis (2-ethylhexyl) phthalate	0.01	0	0	0	0	3900											
Butyl benzyl phthalate	0.3	6	0.3	0.3	0	61000	0.3	0.3	0.3	0.3	0.3	0.3					
Diethyl Phthalate	0.2	6	0.2	0.2	0	14	0.2	0.2	0.2	0.2	0.2	0.2					
Di-n-butyl phthalate	0.01	0	0	0	0	650											
Di-n-octyl phthalate	0.01	0	0	0	0	4900											
						ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH SUBSTANCE**										
						2-Chlorophenol	0.000909	0.000909	0.000909	0.000909	0.000909	0.000909					
						2,4-Dichlorophenol	0.003191	0.003191	0.003191	0.003191	0.003191	0.003191					
					Considered additive (chlorophenols)	2,3,4,6-Tetrachlorophenol											
						2,4,6-Trichlorophenol	0.000714	0.000714	0.000714	0.000714	0.000714	0.000714					
						2-Methylphenol	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05	5.66E-05					
					Considered additive (cresols)	3-Methylphenol											
						4-Methylphenol	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05	3.7E-05					
						Hazard Index for chlorophenols											
						Hazard Index for cresols											

Risk parameter: Human health - residential without plant uptake (1%SOM

Data set: GLACIAL TILL

Client: Crowning Developments Limited

Site: Gould Street, Manchester

Job no.: C21353

Lab. report no(s).: 21-24529, 21-24726, 21-26273, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	CF
						All values in mg/kg unless otherwise stated Location & Depth	MPBH706
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**16.80**
2-Chlorophenol	0.1	1	0.1	0.1	0	110	0.1
2,4-Dichlorophenol	0.3	1	0.3	0.3	0	94	0.3
2,4-Dimethylphenol	0.3	1	0.3	0.3	0	300	0.3
2-Methylphenol	0.3	1	0.3	0.3	0	5300	0.3
3-Methylphenol	0.01	0	0	0	0	6800	
4-Methylphenol	0.2	1	0.2	0.2	0	5400	0.2
Pentachlorophenol	0.01	0	0	0	0	37	
2,3,4,6-Tetrachlorophenol	0.01	0	0	0	0	140	
2,4,6-Trichlorophenol	0.1	1	0.1	0.1	0	140	0.1
Bis (2-ethylhexyl) phthalate	0.01	0	0	0	0	3900	
Butyl benzyl phthalate	0.3	1	0.3	0.3	0	61000	0.3
Diethyl Phthalate	0.2	1	0.2	0.2	0	14	0.2
Di-n-butyl phthalate	0.01	0	0	0	0	650	
Di-n-octyl phthalate	0.01	0	0	0	0	4900	

		ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH SUBSTANCE**
		2-Chlorophenol	0.000909
		2,4-Dichlorophenol	0.003191
Considered additive (chlorophenols)	2,3,4,6-Tetrachlorophenol		
		2,4,6-Trichlorophenol	0.000714
		2-Methylphenol	5.66E-05
Considered additive (cresols)		3-Methylphenol	
		4-Methylphenol	3.7E-05
		Hazard Index for chlorophenols	
		Hazard Index for cresols	

Risk parameter: Human health - residential without plant uptake (1%SOI

Data set: CHESTER FORMATION

Client: Crowning Developments Limited

Site: Gould Street, Manchester

Job no.: C21353

Lab. report no(s).: 21-26273

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

CF denotes Chester Formation

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
							All values in mg/kg unless otherwise stated **Location & Depth**	TP713	TP713	TP720	TP720	WS704	WS702	WS704	WS702	WS702	WS703	TP716	MPBH709	MPBH711
								1.10	1.40-1.60	0.90	1.40-1.50	0.90	0.70-0.90	1.20	1.80	3.00	1.40	1.10	3.80	3.70
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**														
HMX	0.01	0	0	0	0	6700														
RDX	0.01	0	0	0	0	400														
2,4,6-Trinitrotoluene	0.01	0	0	0	0	65														
Biphenyl	0.01	0	0	0	0	34														
Carbon disulphide	0.01	0	0	0	0	0.14														
2,4-Dinitrotoluene	0.2	13	0.2	0.2	0	240		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
2,6-Dinitrotoluene	0.1	13	0.1	0.1	0	110		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Hexachloro-1,3-butadiene	0.01	0	0	0	0	0.32														
Mercury, methyl	0.01	0	0	0	0	12														
Styrene	0.001	13	0.001	330	1	52		0.001	0.001	0.001	0.001	39	0.001	330	0.001	0.001	0.001	0.001	0.001	0.001
Tributyl tin oxide	0.01	0	0	0	0	12														
2-Chloronaphthalene	0.01	13	0.1	0.1	0	5.4		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-23857, 21-24529, 21-24547, 21-24726, 21-26273, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	GT	GT	GT	GT	GT	GT						
All values in mg/kg unless otherwise stated						Location & Depth	TP720	WS704	WS702	TP716	MPBH704	MPBH711						
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.75**	**1.80**	**3.50**	**1.80**	**4.80**	**4.80**						
HMX	0.01	0	0	0	0	6700												
RDX	0.01	0	0	0	0	400												
2,4,6-Trinitrotoluene	0.01	0	0	0	0	65												
Biphenyl	0.01	0	0	0	0	34												
Carbon disulphide	0.01	0	0	0	0	0.14												
2,4-Dinitrotoluene	0.2	6	0.2	0.2	0	240	0.2	0.2	0.2	0.2	0.2	0.2						
2,6-Dinitrotoluene	0.1	6	0.1	0.1	0	110	0.1	0.1	0.1	0.1	0.1	0.1						
Hexachloro-1,3-butadiene	0.01	0	0	0	0	0.32												
Mercury, methyl	0.01	0	0	0	0	12												
Styrene	0.001	6	0.001	0.001	0	52	0.001	0.001	0.001	0.001	0.001	0.001						
Tributyl tin oxide	0.01	0	0	0	0	12												
2-Chloronaphthalene	0.1	6	0.1	0.1	0	5.4	0.1	0.1	0.1	0.1	0.1	0.1						

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-24529, 21-24726, 21-26273, 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).
GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	**CF**											
						All values in mg/kg unless otherwise stated **Location & Depth**	**MPBH706**											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**16.80**											
Antimony	0.01	0	0	0	0	380												
Barium	0.01	0	0	0	0	1400												
Mercury, elemental	0.01	0	0	0	0	0.24												
Molybdenum	0.01	0	0	0	0	670												
Thiocyanate	0.01	1	5	5	0	13	5											

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: CHESTER FORMATION
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-23857

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
CF denotes Chester Formation

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type	MG	MG	MG	MG	MG	MG	MG	MG				
								Location & Depth	TP720	WS704	WS702	WS704	WS702	TP716	MPBH709	MPBH711				
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**1.40-1.50**	**0.9**	**0.70-0.90**	**1.20**	**3.00**	**1.10**	**3.80**	**3.70**				
Antimony	0.01	0	0	0	0	380														
Barium	0.01	0	0	0	0	1400														
Mercury, elemental	0.01	0	0	0	0	0.24														
Molybdenum	0.01	0	0	0	0	670														
Thiocyanate	5	8	5	5	0	13	5		5	5	5	5	5	5	5	5				

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: MADE GROUND
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-23857

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	GT	GT	GT	GT								
All values in mg/kg unless otherwise stated						Location & Depth	TP716	TP722	MPBH704	MPBH711								
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**1.80**	**1.70**	**4.80**	**4.80**								
Antimony	0.01	0	0	0	0	380												
Barium	0.01	0	0	0	0	1400												
Mercury, elemental	0.01	0	0	0	0	0.24												
Molybdenum	0.01	0	0	0	0	670												
Thiocyanate	0.01	4	5	5	0	13	5	5	5	5								

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-23857

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
GT denotes Glacial Till

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	**MG**											
						All values in mg/kg unless otherwise stated **Location & Depth**	**MPBH709**											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**3.80**											
Antimony	0.01	0	0	0	0	380												
Barium	0.01	0	0	0	0	1400												
Mercury, elemental	0.01	0	0	0	0	0.24												
Molybdenum	0.01	0	0	0	0	670												
Thiocyanate	0.01	1	5	5	0	13	5											

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: SITE WON GRAVELS
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-27101

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	**CF**											
						All values in mg/kg unless otherwise stated **Location & Depth**	**MPBH706**											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**16.80**											
HMX	0.01	0	0	0	0	6700												
RDX	0.01	0	0	0	0	3.5												
2,4,6-Trinitrotoluene	0.01	0	0	0	0	65												
Biphenyl	0.01	0	0	0	0	34												
Carbon disulphide	0.01	0	0	0	0	0.14												
2,4-Dinitrotoluene	0.2	1	0.2	0.2	0	240	0.2											
2,6-Dinitrotoluene	0.1	1	0.1	0.1	0	110	0.1											
Hexachloro-1,3-butadiene	0.01	0	0	0	0	0.32												
Mercury, methyl	0.01	0	0	0	0	12												
Styrene	0.001	1	0.001	0.001	0	52	0.001											
Tributyl tin oxide	0.01	0	0	0	0	12												
2-Chloronaphthalene	0.1	1	0.1	0.1	0	5.4	0.1											

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: CHESTER FORMATION
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: 21-26273

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).
CF denotes Chester Formation

AMEC Data within Hydrock's CLEA Datasheets

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1
									Location & Depth	WS01	WS01	TP39	BH01	TP01A	WS10	WS10	WS10	TP01	TP01	WS15	WS02	WS02	WS09	WS9DUP	HDP301	HDP301	WS301	WS302	WS303
										0.7	1.6-1.8	0.9	2	0.6	0.6	2	3.5	0.5	1.5	0.3	0.2	1	0.5	0.5	0.60-0.80	1.00-1.20	1.50-1.70	1.40-1.70	3.2-3.4
Arsenic	4	101	1.5	160	9	40	26.07342	POTENTIALLY SUITABLE FOR USE		6.1	11	10	6	11	3	1.8	16	1.5	16	6.9	5.8	4.4	12	9.1	24	3	16	3	3
Beryllium	0.06	0	0	0	0	73																							
Boron	3.5	101	0.056	3.5	0	11000	2.06052	POTENTIALLY SUITABLE FOR USE		0.32	0.26	0.38	0.44	0.98	0.1	0.1	0.19	0.086	0.27	0.056	0.19	0.2	0.14	0.13	3.5	3.5	3.5	3.5	3.5
Cadmium	0.5	101	0.2	1.2	0	87	0.514816	POTENTIALLY SUITABLE FOR USE		0.5	0.5	0.37	0.5	0.5	0.5	0.5	0.52	0.5	0.29	0.52	0.5	0.5	0.4	0.33	0.6	0.4	0.3	0.2	0.2
Chromium (III)	1	0	0	0	0	890																							
Chromium (VI)	1.2	0	0	0	0	6.1																							
Copper	6	101	3.7	140	0	7300	46.97656	POTENTIALLY SUITABLE FOR USE		20	3.7	29	24	31	7.4	5.3	47	4.3	22	12	53	27	44	35	72	21	69	12	6
Lead	0	101	5	810	11	310	185.922	POTENTIALLY SUITABLE FOR USE		26	32	620	8.5	94	10	9.8	22	10	33	56	150	130	95	87	290	57	110	15	5
Mercury, inorganic	0.5	101	0.049	1.1	0	240	0.373607	POTENTIALLY SUITABLE FOR USE		0.061	0.1	0.53	0.1	0.1	0.079	0.049	0.056	0.1	0.071	0.052	0.1	0.1	0.17	0.17	0.4	0.4	0.4	0.4	0.4
Nickel	15	101	4.9	48	0	180	25.55809	POTENTIALLY SUITABLE FOR USE		12	4.9	11	33	13	14	11	23	5.4	17	7.3	13	15	19	14	41	12	48	24	9.9
Selenium	3	101	0.072	4	0	600	1.886959	POTENTIALLY SUITABLE FOR USE		0.35	0.6	0.17	0.11	0.63	0.1	0.1	0.1	0.1	0.31	0.37	0.3	0.19	0.52	0.33	3	3	3	3	3
Vanadium	1	0	0	0	0	1200																							
Zinc	2	101	17	317.8	0	40000	112.1073	POTENTIALLY SUITABLE FOR USE		51	66	310	63	43	26	17	94	19	71	60	71	73	240	190	130	58	110	40	26
Cyanide (free)	1	34	1	1	0	800	1																		1	1	1	1	1
Phenol (total)	0.5	101	0.15	300	0	750	25.84911	POTENTIALLY SUITABLE FOR USE		300	50	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.65	0.5	0.5	0.15	0.15	0.15	0.15	0.15
Acenaphthene	1	101	0.008	100	0	3000	15.97925	POTENTIALLY SUITABLE FOR USE		46	76	1	1	1	1	0.45	1	2.4	0.81	0.99	0.58	1	3.3	3.3	6.3	0.26	100	0.008	0.008
Acenaphthylene	1	101	0.012	360	0	2900	37.10506	POTENTIALLY SUITABLE FOR USE		170	360	2.4	1	1	1	1	1	1.3	1.2	1	1	1.7	1	0.96	8.2	0.67	25	0.012	0.012
Anthracene	1	101	0.016	200	0	31000	30.9459	POTENTIALLY SUITABLE FOR USE		100	200	2.9	1	1	1	1	1	1.4	1.6	0.9	1	2.5	7.6	8.3	14	1.1	130	0.016	0.016
Benz(a)anthracene	1	101	0.014	180	42	5.5	39.75627	FURTHER ASSESSMENT REQUIRED		75	140	6.7	1	1	1	1	1	1	2.6	2.2	0.49	3.5	25	22	24	3.3	180	0.025	0.02
Benzo(a)pyrene	1	101	0.015	140	58	1.5	30.50429	FURTHER ASSESSMENT REQUIRED		43	73	4.3	1	1	1	1	1	1	3.4	2.5	0.49	2.6	21	20	26	3.7	140	0.019	0.016
Benzo(b)fluoranthene	1	101	0.015	130	35	11	30.78098	FURTHER ASSESSMENT REQUIRED		41	120	3.5	1	1	1	1	0.47	1	2.1	2.2	1	2.5	18	17	27	4.1	120	0.03	0.039
Benzo(ghi)perylene	1	101	0.024	100	2	71	21.26081	POTENTIALLY SUITABLE FOR USE		26	57	3.5	1	1	1	1	1	1	2.4	2	1	2.4	17	15	17	2.7	65	0.024	0.024
Benzo(k)fluoranthene	1	101	0.014	110	22	15	21.42789	FURTHER ASSESSMENT REQUIRED		41	47	5.3	1	1	1	1	1	1	2.1	1.9	1	2.4	19	17	10	1.5	53	0.014	0.014
Chrysene	1	101	0.01	170	34	13	36.53721	FURTHER ASSESSMENT REQUIRED		65	99	6.7	1	0.71	1	1	1	1	2.7	2.5	0.66	3.7	25	24	18	2.6	170	0.03	0.04
Dibenz(a,h)anthracene	1	101	0.023	20	36	1.3	5.659352	FURTHER ASSESSMENT REQUIRED		7.9	16	0.89	1	1	1	1	1	1	0.62	0.47	1	1	4.4	4.3	4.1	0.64	20	0.023	0.023
Fluoranthene	1	101	0.017	380	0	1500	82.55566	POTENTIALLY SUITABLE FOR USE		190	350	15	1	0.9	1	1	0.56	0.45	5.7	4.3	1.4	7.7	52	48	45	5.7	380	0.054	0.019
Fluorene	1	101	0.01	270	0	2800	33.9788	POTENTIALLY SUITABLE FOR USE		170	270	0.98	1	1	1	0.49	1	1.5	1.9	0.6	0.66	2.5	3.2	3.3	11	0.33	89	0.01	0.01
Indeno(1,2,3,cd)pyrene	1	101	0.018	110	36	6.3	19.74565	FURTHER ASSESSMENT REQUIRED		25	63	2.8	1	1	1	1	1	1	2.7	1.7	1	2.2	16	11	14	2.1	52	0.018	0.018
Naphthalene	1	101	0.009	1100	41	2.3	141.0598	FURTHER ASSESSMENT REQUIRED		430	1100	1.4	1	1	1	0.83	1.1	1	5.2	2	1.1	5.2	1.2	1.3	18	1.3	620	0.009	0.009
Phenanthrene	1	101	0.015	630	0	1300	104.1175	POTENTIALLY SUITABLE FOR USE		260	520	18	1	0.43	0.63	1	1	1.2	4.6	1.8	1	10	18	20	38	3.9	630	0.021	0.064
Pyrene	1	101	0.015	400	0	3700	81.02816	POTENTIALLY SUITABLE FOR USE		160	240	14	1	1	0.58	1	0.85	0.47	5.7	5.2	1.3	8.1	56	52	44	5.7	400	0.062	0.015
Asbestos identified	Y/N																												
FOC (dimensionless)	0.003333	**(mean)**																										0.003	0.003
SOM (calculated)		**(mean)**																											
pH (su)	8.1	**(mean)**								8.2	8	7.9	8.6	9.4	8.5	6	8	8.1	8.3	8.4	8.8	8.4	8.4	8.3	8.09	8.87	7.25	5.58	7.92

Risk parameter: **Human health - residential without plant uptake (1%SOM)**

Data set: Made Ground

Client: Crowning Development Limited

Site: Gould Street, Manchester

Job no.: C-21353

Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, Apps C2 Other Zone 1, TP Zone 1, TT2 Soils and WS Zone 1, /

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
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NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1
									Location & Depth	WS304	WS304	WS305	WS306	WS306	WS307	WS307	BH507	WS501	WS502A	WS504	WS505	BH01	TP01	TP01	TP1A	TP39	WS01	WS01	WS02	WS02	WS09	WS09DUP	WS10	WS10
										0.4-0.6	0.8-1.0	0.3-0.6	0.6-0.8	2.0-2.3	0.50-0.70	1.5-1.8	2.3-2.3	0.4-0.6	0.2-0.4	0.6-0.8	0.8-1.0	2	0.5	1.5	0.6	0.9	0.7	1.6-1.8	0.2	1	0.5	0.5	0.6	2
Arsenic	4	101	1.5	160	9	40	26.07342	POTENTIALLY SUITABLE FOR USE		3	15	3	3	3	3	3	13.2	6.4	9.2	6	4	6	1.5	16	11	10	6.1	11	5.8	4.4	12	9.1	3	1.8
Beryllium	0.06	0	0	0	0	73																											
Boron	3.5	101	0.056	3.5	0	11000	2.06052	POTENTIALLY SUITABLE FOR USE		3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.6	0.9	0.6	1.2	0.5	0.44	0.086	0.27	0.98	0.38	0.32	0.26	0.19	0.2	0.14	0.13	0.1	0.1
Cadmium	0.5	101	0.2	1.2	0	87	0.514816	POTENTIALLY SUITABLE FOR USE		0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.44	0.55	0.35	0.61	0.32	0.5	0.5	0.29	0.5	0.37	0.5	0.5	0.5	0.5	0.4	0.33	0.5	0.5
Chromium (III)	1	0	0	0	0	890																											
Chromium (VI)	1.2	0	0	0	0	6.1																											
Copper	6	101	3.7	140	0	7300	46.97656	POTENTIALLY SUITABLE FOR USE		10	61	7	9	6	9	8	31	28.5	39.6	19	13.1	24	4.3	22	31	29	20	3.7	53	27	44	35	7.4	5.3
Lead	0	101	5	810	11	310	185.922	POTENTIALLY SUITABLE FOR USE		12	93	16	15	43	16	9	499.7	144	70	145.5	19.2	8.5	10	33	94	620	26	32	150	130	95	87	10	9.8
Mercury, inorganic	0.5	101	0.049	1.1	0	240	0.373607	POTENTIALLY SUITABLE FOR USE		0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.51	0.52	0.52	0.5	0.1	0.1	0.071	0.1	0.53	0.061	0.1	0.1	0.1	0.17	0.17	0.079	0.049
Nickel	15	101	4.9	48	0	180	25.55809	POTENTIALLY SUITABLE FOR USE		22	35	21	21	24	21	26	16.8	24.6	17	17.3	26.4	33	5.4	17	13	11	12	4.9	13	15	19	14	14	11
Selenium	3	101	0.072	4	0	600	1.886959	POTENTIALLY SUITABLE FOR USE		3	3	3	3	3	3	3	0.5	0.5	0.5	0.5	0.5	0.11	0.1	0.31	0.63	0.17	0.35	0.6	0.3	0.19	0.52	0.33	0.1	0.1
Vanadium	1	0	0	0	0	1200																											
Zinc	2	101	17	317.8	0	40000	112.1073	POTENTIALLY SUITABLE FOR USE		30	150	83	35	41	34	37	317.8	83.9	82.5	78.2	69.1	63	19	71	43	310	51	66	71	73	240	190	26	17
Cyanide (free)	1	34	1	1	0	800	1			1	1	1	1	1	1	1																	
Phenol (total)	0.5	101	0.15	300	0	750	25.84911	POTENTIALLY SUITABLE FOR USE		0.15	0.15	0.15	0.15	0.15	0.15	0.15	5.7	2.4	2.7	2.6	2.5	0.5	0.5	0.5	0.5	0.5	300	50	0.5	0.65	0.5	0.5	0.5	0.5
Acenaphthene	1	101	0.008	100	0	3000	15.97925	POTENTIALLY SUITABLE FOR USE		0.008	0.54	0.008	0.008	0.008	0.008	0.008	0.42	0.24	0.1	0.27	0.09	1	2.4	0.81	1	1	46	76	0.58	1	3.3	3.3	1	0.45
Acenaphthylene	1	101	0.012	360	0	2900	37.10506	POTENTIALLY SUITABLE FOR USE		0.012	0.58	0.012	0.012	0.012	0.012	0.012	3.09	0.13	0.1	0.27	0.09	1	1.3	1.2	1	2.4	170	360	1	1.7	1	0.96	1	1
Anthracene	1	101	0.016	200	0	31000	30.9459	POTENTIALLY SUITABLE FOR USE		0.016	1.7	0.016	0.016	0.016	0.018	0.016	4.56	0.65	0.4	0.62	0.09	1	1.4	1.6	1	2.9	100	200	1	2.5	7.6	8.3	1	1
Benz(a)anthracene	1	101	0.014	180	42	5.5	39.75627	FURTHER ASSESSMENT REQUIRED		0.044	6.5	0.033	0.055	0.014	0.063	0.014	13.7	1.87	2.97	1.98	0.1	1	1	2.6	1	6.7	75	140	0.49	3.5	25	22	1	1
Benzo(a)pyrene	1	101	0.015	140	58	1.5	30.50429	FURTHER ASSESSMENT REQUIRED		0.031	8.2	0.015	0.03	0.015	0.043	0.015	13.3	1.67	4.77	2.05	0.09	1	1	3.4	1	4.3	43	73	0.49	2.6	21	20	1	1
Benzo(b)fluoranthene	1	101	0.015	130	35	11	30.78098	FURTHER ASSESSMENT REQUIRED		0.062	9.5	0.042	0.056	0.035	0.082	0.015	15.5	1.83	4.26	2.2	0.11	1	1	2.1	1	3.5	41	120	1	2.5	18	17	1	1
Benzo(ghi)perylene	1	101	0.024	100	2	71	21.26081	POTENTIALLY SUITABLE FOR USE		0.035	5.7	0.024	0.042	0.024	0.057	0.024	8.93	1.09	4.52	1.36	0.09	1	1	2.4	1	3.5	26	57	1	2.4	17	15	1	1
Benzo(k)fluoranthene	1	101	0.014	110	22	15	21.42789	FURTHER ASSESSMENT REQUIRED		0.014	3.2	0.014	0.021	0.014	0.03	0.014	4.7	0.6	1.4	0.7	0.09	1	1	2.1	1	5.3	41	47	1	2.4	19	17	1	1
Chrysene	1	101	0.01	170	34	13	36.53721	FURTHER ASSESSMENT REQUIRED		0.03	4.9	0.02	0.05	0.01	0.07	0.01	10.81	1.71	2.78	1.8	0.09	1	1	2.7	0.71	6.7	65	99	0.66	3.7	25	24	1	1
Dibenz(a,h)anthracene	1	101	0.023	20	36	1.3	5.659352	FURTHER ASSESSMENT REQUIRED		0.023	1.2	0.023	0.023	0.023	0.023	0.023	1.91	0.22	0.63	0.26	0.09	1	1	0.62	1	0.89	7.9	16	1	1	4.4	4.3	1	1
Fluoranthene	1	101	0.017	380	0	1500	82.55566	POTENTIALLY SUITABLE FOR USE		0.041	13	0.017	0.056	0.017	0.091	0.017	29.2	3.98	3.56	3.41	0.16	1	0.45	5.7	0.9	15	190	350	1.4	7.7	52	48	1	1
Fluorene	1	101	0.01	270	0	2800	33.9788	POTENTIALLY SUITABLE FOR USE		0.01	0.43	0.01	0.01	0.01	0.01	0.01	0.65	0.22	0.1	0.29	0.09	1	1.5	1.9	1	0.98	170	270	0.66	2.5	3.2	3.3	1	0.49
Indeno(1,2,3,cd)pyrene	1	101	0.018	110	36	6.3	19.74565	FURTHER ASSESSMENT REQUIRED		0.026	4.5	0.018	0.027	0.018	0.038	0.018	10.49	1.23	4.41	1.51	0.09	1	1	2.7	1	2.8	25	63	1	2.2	18	11	1	1
Naphthalene	1	101	0.009	1100	41	2.3	141.0598	FURTHER ASSESSMENT REQUIRED		0.009	0.58	0.009	0.01	0.009	0.013	0.009	0.51	0.2	0.12	0.31	0.09	1	1	5.2	1	1.4	430	1100	1.1	5.2	1.2	1.3	1	0.83
Phenanthrene	1	101	0.015	630	0	1300	104.1175	POTENTIALLY SUITABLE FOR USE		0.051	7.4	0.038	0.078	0.049	0.12	0.015	9.56	2.34	1.51	2.14	0.09	1	1.2	4.6	0.43	18	260	520	1	10	18	20	0.63	1
Pyrene	1	101	0.015	400	0	3700	81.02816	POTENTIALLY SUITABLE FOR USE		0.051	12	0.015	0.06	0.015	0.092	0.015	23	3.36	4.04	3.6	0.16	1	0.47	5.7	1	14	160	240	1.3	8.1	56	52	0.58	1
Asbestos identified	Y/N																																
FOC (dimensionless)	0.003333	**(mean)**										0.004																					
SOM (calculated)		**(mean)**																															
pH (su)	8.1	**(mean)**								7.47	7.73	6.66	7.39	6.94	6.75	5.39	8.9	10.5	8	9.8	8.7	8.6	8.1	8.3	9.4	7.9	8.2	8	8.8	8.4	8.4	8.3	8.5	6

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: Made Ground
Client: Crowning Development Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, Apps C2 Other Zone 1, TP Zone 1, TT2 Soil

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2
									Location & Depth	WS10	WS15	HDP301	HDP301	WS301	WS302	WS303	WS304	WS304	WS305	WS306	WS306	WS307	WS307	BH05A	TP11	TP11	TP11/DUP	WS13	THA1	WS04	WS04	WS04A	WS03	TP10	TP10	TP08	TP08
										3.5	0.3	0.60-0.80	1.00-1.20	1.50-1.70	1.40-1.70	3.2-3.4	0.4-0.6	0.8-1.0	0.3-0.6	0.6-0.8	2.0-2.3	0.50-0.70	1.5-1.8	3	0.9	0.4	0.4	1	0.2	0.7	2	2	0.5	0.5	1.8	0.5	1
Arsenic	4	101	1.5	160	9	40	26.07342	POTENTIALLY SUITABLE FOR USE		16	6.9	24	3	16	3	3	3	15	3	3	3	3	3	29	160	23	80	74	43	50	2.8	13	4.7	11	7.9	13	27
Beryllium	0.06	0	0	0	0	73																															
Boron	3.5	101	0.056	3.5	0	11000	2.06052	POTENTIALLY SUITABLE FOR USE		0.19	0.056	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.66	0.59	0.32	0.42	0.38	0.39	0.49	0.069	0.36	0.22	0.22	0.26	0.1	0.39
Cadmium	0.5	101	0.2	1.2	0	87	0.514816	POTENTIALLY SUITABLE FOR USE		0.52	0.52	0.6	0.4	0.3	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.63	0.3	0.48	0.5	0.91	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.27
Chromium (III)	1	0	0	0	0	890																															
Chromium (VI)	1.2	0	0	0	0	6.1																															
Copper	6	101	3.7	140	0	7300	46.97656	POTENTIALLY SUITABLE FOR USE		47	12	72	21	69	12	6	10	61	7	9	6	9	8	55	99	140	90	88	120	98	15	45	13	26	23	24	51
Lead	0	101	5	810	11	310	185.922	POTENTIALLY SUITABLE FOR USE		22	56	290	57	110	15	5	12	93	16	15	43	16	9	110	810	550	360	100	440	190	17	82	31	110	9.2	29	77
Mercury, inorganic	0.5	101	0.049	1.1	0	240	0.373607	POTENTIALLY SUITABLE FOR USE		0.056	0.052	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.1	0.45	1.1	0.28	0.74	0.53	0.43	0.077	0.14	0.1	0.1	0.1	0.061	0.11
Nickel	15	101	4.9	48	0	180	25.55809	POTENTIALLY SUITABLE FOR USE		23	7.3	41	12	48	24	9.9	22	35	21	21	24	21	26	25	29	42	36	23	36	37	7.7	20	11	33	36	15	24
Selenium	3	101	0.072	4	0	600	1.886959	POTENTIALLY SUITABLE FOR USE		0.1	0.37	3	3	3	3	3	3	3	3	3	3	3	3	0.52	2.1	0.66	1.1	0.4	0.82	1.2	0.072	0.64	0.32	0.27	0.1	0.17	0.72
Vanadium	1	0	0	0	0	1200																															
Zinc	2	101	17	317.8	0	40000	112.1073	POTENTIALLY SUITABLE FOR USE		94	60	130	58	110	40	26	30	150	83	35	41	34	37	66	140	250	140	69	96	120	24	91	36	67	64	53	85
Cyanide (free)	1	34	1	1	0	800	1					1	1	1	1	1	1	1	1	1	1	1	1													
Phenol (total)	0.5	101	0.15	300	0	750	25.84911	POTENTIALLY SUITABLE FOR USE		0.5	0.5	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.7	0.5	0.5	0.5	0.5	0.5	0.5
Acenaphthene	1	101	0.008	100	0	3000	15.97925	POTENTIALLY SUITABLE FOR USE		1	0.99	6.3	0.26	100	0.008	0.008	0.008	0.54	0.008	0.008	0.008	0.008	0.008	18	3.3	1.6	1.1	4.1	35	35	3.6	8.2	0.44	1.2	1	5.7	16
Acenaphthylene	1	101	0.012	360	0	2900	37.10506	POTENTIALLY SUITABLE FOR USE		1	1	8.2	0.67	25	0.012	0.012	0.012	0.58	0.012	0.012	0.012	0.012	0.012	4.7	23	1.5	3	14	6.2	11	2.5	10	1	2.7	1.3	0.89	4
Anthracene	1	101	0.016	200	0	31000	30.9459	POTENTIALLY SUITABLE FOR USE		1	0.9	14	1.1	130	0.016	0.016	0.016	1.7	0.016	0.016	0.016	0.018	0.016	33	50	4.4	6.9	6.4	53	50	4.1	10	1	3.7	1.4	8.9	29
Benz(a)anthracene	1	101	0.014	180	42	5.5	39.75627	FURTHER ASSESSMENT REQUIRED		1	2.2	24	3.3	180	0.025	0.02	0.044	6.5	0.033	0.055	0.014	0.063	0.014	66	72	16	15	9.3	150	100	1.8	17	0.44	6.2	1	18	60
Benzo(a)pyrene	1	101	0.015	140	58	1.5	30.50429	FURTHER ASSESSMENT REQUIRED		1	2.5	26	3.7	140	0.019	0.016	0.031	8.2	0.015	0.03	0.015	0.043	0.015	55	59	14	16	4.9	120	79	2.5	17	1	5.3	1	14	47
Benzo(b)fluoranthene	1	101	0.015	130	35	11	30.78098	FURTHER ASSESSMENT REQUIRED		0.47	2.2	27	4.1	120	0.03	0.039	0.062	9.5	0.042	0.056	0.035	0.082	0.015	41	54	18	12	8.3	130	72	1.6	15	1	4.2	1	13	51
Benzo(ghi)perylene	1	101	0.024	100	2	71	21.26081	POTENTIALLY SUITABLE FOR USE		1	2	17	2.7	65	0.024	0.024	0.035	5.7	0.024	0.042	0.024	0.057	0.024	44	41	13	14	8.8	100	63	1.8	15	1	4.3	1	10	34
Benzo(k)fluoranthene	1	101	0.014	110	22	15	21.42789	FURTHER ASSESSMENT REQUIRED		1	1.9	10	1.5	53	0.014	0.014	0.014	3.2	0.014	0.021	0.014	0.03	0.014	54	45	11	12	5.9	110	65	1.7	12	1	4.7	1	13	30
Chrysene	1	101	0.01	170	34	13	36.53721	FURTHER ASSESSMENT REQUIRED		1	2.5	18	2.6	170	0.03	0.04	0.03	4.9	0.02	0.05	0.01	0.07	0.01	71	68	17	15	7.8	140	110	3.6	20	0.75	6.6	1	17	51
Dibenz(a,h)anthracene	1	101	0.023	20	36	1.3	5.659352	FURTHER ASSESSMENT REQUIRED		1	0.47	4.1	0.64	20	0.023	0.023	0.023	1.2	0.023	0.023	0.023	0.023	0.023	16	13	3.7	3.7	4.9	11	20	0.3	5	1	1.1	1	1.3	10
Fluoranthene	1	101	0.017	380	0	1500	82.55566	POTENTIALLY SUITABLE FOR USE		0.56	4.3	45	5.7	380	0.054	0.019	0.041	13	0.017	0.056	0.017	0.091	0.017	130	140	28	29	27	290	140	4.1	34	1.5	11	3.4	40	110
Fluorene	1	101	0.01	270	0	2800	33.9788	POTENTIALLY SUITABLE FOR USE		1	0.6	11	0.33	89	0.01	0.01	0.01	0.43	0.01	0.01	0.01	0.01	0.01	18	19	2.2	2.6	7.8	28	33	15	4.3	0.44	3.7	1.3	4.5	14
Indeno(1,2,3,cd)pyrene	1	101	0.018	110	36	6.3	19.74565	FURTHER ASSESSMENT REQUIRED		1	1.7	14	2.1	52	0.018	0.018	0.026	4.5	0.018	0.027	0.018	0.038	0.018	28	34	8.2	13	14	110	48	1.5	10	1	2.8	1	10	32
Naphthalene	1	101	0.009	1100	41	2.3	141.0598	FURTHER ASSESSMENT REQUIRED		1.1	2	18	1.3	620	0.009	0.009	0.009	0.58	0.009	0.01	0.009	0.013	0.009	21	17	5.5	3.8	780	16	92	3.9	7.7	1.1	12	8	3	11
Phenanthrene	1	101	0.015	630	0	1300	104.1175	POTENTIALLY SUITABLE FOR USE		1	1.8	38	3.9	630	0.021	0.064	0.051	7.4	0.038	0.078	0.049	0.12	0.015	130	140	12	20	54	200	200	4.7	33	1.3	15	5	39	110
Pyrene	1	101	0.015	400	0	3700	81.02816	POTENTIALLY SUITABLE FOR USE		0.85	5.2	44	5.7	400	0.062	0.015	0.051	12	0.015	0.06	0.015	0.092	0.015	130	140	32	30	27	320	190	3.6	37	1	14	4.2	45	120
Asbestos identified	Y/N																																				
FOC (dimensionless)	0.003333	**(mean)**													0.003	0.003				0.004																	
SOM (calculated)		**(mean)**																																			
pH (su)	8.1	**(mean)**								8	8.4	8.09	8.87	7.25	5.58	7.92	7.47	7.73	6.66	7.39	6.94	6.75	5.39	8	7.7	8.2	8.1	7.8	8.1	8.3		9.6	8.8	8.4	8.2	8.1	8.1

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: Made Ground
Client: Crowning Development Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, Apps C2 Other Zone 1, TP Zone 1, TT2 Soil

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	US_{95}	Result of Significance Test	Soil Type	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2	MG-P2
									Location & Depth	TP09	WS12	BH304	WS308	WS308	WS309	WS310	WS508	BH05A	THA1	TP08	TP08	TP09	TP10	TP10	TP11	TP11	TP11/DUP	WS03	WS04	WS04	WS04A	WS12	BH304	WS308	WS308	WS309	WS310
										1.4	0.2	1.50-1.70	0.3-0.7	0.7-0.8	0.4-0.6	0.6-0.8	0.6-0.8	3	0.2	0.5	1	1.4	0.5	1.8	0.4	0.9	0.4	0.5	0.7	2	2	0.2	1.50-1.70	0.3-0.7	0.7-0.8	0.4-0.6	0.6-0.8
Arsenic	4	101	1.5	160	9	40	26.07342	POTENTIALLY SUITABLE FOR USE		5.5	4.4	3	3	3	3	3	6.9	29	43	13	27	5.5	11	7.9	23	160	80	4.7	50	2.8	13	4.4	3	3	3	3	3
Beryllium	0.06	0	0	0	0	73																															
Boron	3.5	101	0.056	3.5	0	11000	2.06052	POTENTIALLY SUITABLE FOR USE		0.27	0.11	3.5	3.5	3.5	3.5	3.5	1.1	0.66	0.39	0.1	0.39	0.27	0.22	0.26	0.32	0.59	0.42	0.22	0.49	0.069	0.36	0.11	3.5	3.5	3.5	3.5	3.5
Cadmium	0.5	101	0.2	1.2	0	87	0.514816	POTENTIALLY SUITABLE FOR USE		0.5	0.5	0.4	0.2	1.2	0.5	0.2	0.37	0.5	0.91	0.5	0.27	0.5	0.5	0.5	0.3	0.63	0.48	0.5	0.5	0.5	0.5	0.5	0.4	0.2	1.2	0.5	0.2
Chromium (III)	1	0	0	0	0	890																															
Chromium (VI)	1.2	0	0	0	0	6.1																															
Copper	6	101	3.7	140	0	7300	46.97656	POTENTIALLY SUITABLE FOR USE		19	16	10	8	26	15	7	21.1	55	120	24	51	19	26	23	140	99	90	13	98	15	45	16	10	8	26	15	7
Lead	0	101	5	810	11	310	185.922	POTENTIALLY SUITABLE FOR USE		34	21	12	19	93	64	12	35.7	110	440	29	77	34	110	9.2	550	810	360	31	190	17	82	21	12	19	93	64	12
Mercury, inorganic	0.5	101	0.049	1.1	0	240	0.373607	POTENTIALLY SUITABLE FOR USE		0.065	0.079	0.4	0.4	0.4	0.4	0.4	0.5	0.1	0.53	0.061	0.11	0.065	0.1	0.1	1.1	0.45	0.28	0.1	0.43	0.077	0.14	0.079	0.4	0.4	0.4	0.4	0.4
Nickel	15	101	4.9	48	0	180	25.55809	POTENTIALLY SUITABLE FOR USE		18	14	26	22	17	14	17	19.1	25	36	15	24	18	33	36	42	29	36	11	37	7.7	20	14	26	22	17	14	17
Selenium	3	101	0.072	4	0	600	1.886959	POTENTIALLY SUITABLE FOR USE		0.13	0.1	3	3	4	3	3	0.7	0.52	0.82	0.17	0.72	0.13	0.27	0.1	0.66	2.1	1.1	0.32	1.2	0.072	0.64	0.1	3	3	4	3	3
Vanadium	1	0	0	0	0	1200																															
Zinc	2	101	17	317.8	0	40000	112.1073	POTENTIALLY SUITABLE FOR USE		50	48	68	31	150	73	34	61.8	66	96	53	85	50	67	64	250	140	140	36	120	24	91	48	68	31	150	73	34
Cyanide (free)	1	34	1	1	0	800	1					1	1	1	1	1																1	1	1	1	1
Phenol (total)	0.5	101	0.15	300	0	750	25.84911	POTENTIALLY SUITABLE FOR USE		0.5	0.5	0.15	0.15	0.15	0.15	0.15	2.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.7	0.5	0.5	0.15	0.15	0.15	0.15	0.15
Acenaphthene	1	101	0.008	100	0	3000	15.97925	POTENTIALLY SUITABLE FOR USE		1	1	0.017	0.013	0.81	6.3	0.27	0.09	18	35	5.7	16	1	1.2	1	1.6	3.3	1.1	0.44	35	3.6	8.2	1	0.017	0.013	0.81	6.3	0.27
Acenaphthylene	1	101	0.012	360	0	2900	37.10506	POTENTIALLY SUITABLE FOR USE		1	1	0.034	0.083	0.65	4.6	0.26	0.15	4.7	6.2	0.89	4	1	2.7	1.3	1.5	23	3	1	11	2.5	10	1	0.034	0.083	0.65	4.6	0.26
Anthracene	1	101	0.016	200	0	31000	30.9459	POTENTIALLY SUITABLE FOR USE		1	1	0.037	0.028	9.2	15	0.7	0.27	33	53	8.9	29	1	3.7	1.4	4.4	50	6.9	1	50	4.1	10	1	0.037	0.028	9.2	15	0.7
Benz(a)anthracene	1	101	0.014	180	42	5.5	39.75627	FURTHER ASSESSMENT REQUIRED		1	0.79	0.18	0.13	41	26	1.5	1.58	66	150	18	60	1	6.2	1	16	72	15	0.44	100	1.8	17	0.79	0.18	0.13	41	26	1.5
Benzo(a)pyrene	1	101	0.015	140	58	1.5	30.50429	FURTHER ASSESSMENT REQUIRED		1.3	0.62	0.22	0.15	44	26	1.5	1.53	55	120	14	47	1.3	5.3	1	14	59	16	1	79	2.5	17	0.62	0.22	0.15	44	26	1.5
Benzo(b)fluoranthene	1	101	0.015	130	35	11	30.78098	FURTHER ASSESSMENT REQUIRED		1.5	0.79	0.2	0.15	41	18	1.6	1.87	41	130	13	51	1.5	4.2	1	16	54	12	1	72	1.6	15	0.79	0.2	0.15	41	18	1.6
Benzo(ghi)perylene	1	101	0.024	100	2	71	21.26081	POTENTIALLY SUITABLE FOR USE		1	1	0.16	0.087	21	15	0.9	1.35	44	100	10	34	1	4.3	1	13	41	14	1	63	1.8	15	1	0.16	0.087	21	15	0.9
Benzo(k)fluoranthene	1	101	0.014	110	22	15	21.42789	FURTHER ASSESSMENT REQUIRED		1	0.74	0.082	0.056	18	9.7	0.51	0.66	54	110	13	30	1	4.7	1	11	45	12	1	65	1.7	12	0.74	0.082	0.056	18	9.7	0.51
Chrysene	1	101	0.01	170	34	13	36.53721	FURTHER ASSESSMENT REQUIRED		1.1	1.2	0.13	0.07	29	24	1.2	1.58	71	140	17	51	1.1	6.6	1	17	68	15	0.75	110	3.6	20	1.2	0.13	0.07	29	24	1.2
Dibenz(a,h)anthracene	1	101	0.023	20	36	1.3	5.659352	FURTHER ASSESSMENT REQUIRED		1	1	0.035	0.023	5.2	3.9	0.21	0.31	16	11	1.3	10	1	1.1	1	3.7	13	3.7	1	20	0.3	5	1	0.035	0.023	5.2	3.9	0.21
Fluoranthene	1	101	0.017	380	0	1500	82.55566	POTENTIALLY SUITABLE FOR USE		1.6	1.4	0.21	0.14	84	58	2.7	2.4	130	290	40	110	1.6	11	3.4	28	140	29	1.5	140	4.1	34	1.4	0.21	0.14	84	58	2.7
Fluorene	1	101	0.01	270	0	2800	33.9788	POTENTIALLY SUITABLE FOR USE		1	0.79	0.01	0.01	0.8	9.4	0.38	0.09	18	28	4.5	14	1	3.7	1.3	2.2	19	2.6	0.44	33	15	4.3	0.79	0.01	0.01	0.8	9.4	0.38
Indeno(1,2,3,cd)pyrene	1	101	0.018	110	36	6.3	19.74565	FURTHER ASSESSMENT REQUIRED		1	1	0.099	0.074	20	12	0.68	1.5	28	110	10	32	1	2.8	1	8.2	34	13	1	48	1.5	10	1	0.099	0.074	20	12	0.68
Naphthalene	1	101	0.009	1100	41	2.3	141.0598	FURTHER ASSESSMENT REQUIRED		4.4	1.3	0.036	0.088	1.2	17	0.59	0.1	21	16	3	11	4.4	12	8	5.5	17	3.8	1.1	92	3.9	7.7	1.3	0.036	0.088	1.2	17	0.59
Phenanthrene	1	101	0.015	630	0	1300	104.1175	POTENTIALLY SUITABLE FOR USE		1.3	1.2	0.17	0.086	24	71	3	1.17	130	200	39	110	1.3	15	5	12	140	20	1.3	200	4.7	33	1.2	0.17	0.086	24	71	3
Pyrene	1	101	0.015	400	0	3700	81.02816	POTENTIALLY SUITABLE FOR USE		2	1.8	0.23	0.14	69	60	2.9	2.48	130	320	45	120	2	14	4.2	32	140	30	1	190	3.6	37	1.8	0.23	0.14	69	60	2.9
Asbestos identified	Y/N																																				
FOC (dimensionless)	0.003333	**(mean)**																																			
SOM (calculated)		**(mean)**																																			
pH (su)	8.1	**(mean)**								8	8.8	8.98	7.73	8	8.69	8.36	8.7	8	8.1	8.1	8.1	8	8.4	8.2	8.2	7.7	8.1	8.8	8.3		9.6	8.8	8.98	7.73	8	8.69	8.36

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: Made Ground
Client: Crowning Development Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, Apps C2 Other Zone 1, TP Zone 1, TT2 Soil

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type	NAT	NAT	NAT	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1
								Location & Depth	BH3A	TP507	VBTW6	BH1	BH1	BH1	TP1	WS2A	WS2A	WS9	BH302A	BH302A	BH302A	BH302A	BH507	BH507	BH507	BH1	BH1	BH1	TP1	WS2A	WS2A	WS9
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**7.40**	**8.25-8.5**	**6.4-6.6**	**6.20**	**12.30**	**15.30**	**2.00**	**3.20**	**4.00**	**3.70**	**1.3-1.5**	**8.8-9.0**	**13.0-13.2**	**15.3-15.6**	**5.0-5.3**	**11.5-11.8**	**14.5-15.0**	**6.20**	**12.30**	**15.30**	**2.00**	**3.20**	**4.00**	**3.70**
Arsenic	3	47	1.9	17	0	40	7.9312127	POTENTIALLY SUITABLE FOR USE	6.6	4.6	6.5	6	17	6	4.7	4.3	4.2	8	3	3	3	3	6.5	4.2	1.9	6	17	6	4.7	4.3	4.2	8
Beryllium	0.06	0	0	0	0	73																										
Boron	3.5	47	0.1	3.5	0	11000	2.2489018	POTENTIALLY SUITABLE FOR USE	0.16	0.5	0.5	0.42	0.62	0.1	0.18	0.17	0.25	0.3	3.5	3.5	3.5	3.5	0.5	0.5	0.5	0.42	0.62	0.1	0.18	0.17	0.25	0.3
Cadmium	0.5	47	0.2	0.5	0	87	0.4678173	POTENTIALLY SUITABLE FOR USE	0.5	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Chromium (III)	1	27	8.9	30	0	890	23.799187	POTENTIALLY SUITABLE FOR USE	16	18.3	22.8	19	21	13	11	11	14	28	24	28	17	11	28.4	12.7	8.9							
Chromium (VI)	1.2	0	0	0	0	6.1																										
Copper	1	47	4.4	97	0	7300	31.662489	POTENTIALLY SUITABLE FOR USE	18	15.1	17.9	24	97	8.2	13	9.9	16	27	19	22	10	8	22.9	15	4.4	24	97	8.2	13	9.9	16	27
Lead	5	47	2.9	490	2	310	91.71178	POTENTIALLY SUITABLE FOR USE	10	8.7	9.6	7.2	490	5	5.6	6.6	5.4	7.8	10	10	9	5	16.9	11.8	2.9	7.2	490	5	5.6	6.6	5.4	7.8
Mercury, inorganic	0.4	47	0.085	1.5	0	240	0.4960387	POTENTIALLY SUITABLE FOR USE	0.085	0.5	0.5	0.1	1.5	0.1	0.1	0.1	0.1	0.1	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.1	1.5	0.1	0.1	0.1	0.1	0.1
Nickel	2	47	8.3	43	0	180	30.077011	POTENTIALLY SUITABLE FOR USE	22	22.4	29.1	26	31	15	15	13	20	36	30	35	14	14	35.8	17.5	8.3	26	31	15	15	13	20	36
Selenium	3	47	0.1	3	0	600	1.8921302	POTENTIALLY SUITABLE FOR USE	0.1	0.5	0.6	0.3	0.33	0.1	0.1	0.31	0.39	0.1	3	3	3	3	0.5	0.5	0.5	0.3	0.33	0.1	0.1	0.31	0.39	0.1
Vanadium	1	0	0	0	0	1200																										
Zinc	2	47	25.1	250	0	40000	85.374048	POTENTIALLY SUITABLE FOR USE	50	45.8	58.1	62	250	27	29	29	37	66	62	77	34	34	66.1	44	25.1	62	250	27	29	29	37	66
Cyanide (free)	1	7	1	1	0	800	1												1	1	1	1										
Phenol (total)	0.5	47	0.15	250	0	750	52.368916	POTENTIALLY SUITABLE FOR USE	0.5	5.9	2.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.15	0.15	0.15	0.15	3.5	3.2	3.4	62	250	27	29	29	37	66
Acenaphthene	1	47	0.008	1.9	0	3000	0.9941211	POTENTIALLY SUITABLE FOR USE	0.94	0.09	0.09	1	1	1	1	1	1	1.9	0.008	0.008	0.008	0.008	0.1	0.1	0.09	1	1	1	1	1	1	1.9
Acenaphthylene	1	47	0.012	1	0	2900	0.8879543	POTENTIALLY SUITABLE FOR USE	1	0.1	0.09	1	1	1	1	0.88	1	1	0.012	0.012	0.012	0.012	0.1	0.1	0.09	1	1	1	1	0.88	1	1
Anthracene	1	47	0.016	1.9	0	31000	0.9998712	POTENTIALLY SUITABLE FOR USE	1.6	0.09	0.09	1	1	1	1	1.9	1	1	0.016	0.016	0.016	0.016	0.1	0.1	0.09	1	1	1	1	1.9	1	1
Benz(a)anthracene	1	47	0.014	2.5	0	5.5	1.0900159	POTENTIALLY SUITABLE FOR USE	2.5	0.15	0.09	1	1	1	1	2	1	1	0.023	0.014	0.033	0.027	0.17	0.1	0.09	1	1	1	1	2	1	1
Benzo(a)pyrene	1	47	0.015	2.2	2	1.5	1.0228081	POTENTIALLY SUITABLE FOR USE	2.2	0.09	0.09	1	1	1	1	1.3	1	1	0.026	0.015	0.018	0.015	0.13	0.1	0.09	1	1	1	1	1.3	1	1
Benzo(b)fluoranthene	1	47	0.015	2.17	0	11	1.0173784	POTENTIALLY SUITABLE FOR USE	1.8	0.13	0.09	1	1	1	1	1.2	1	1	0.034	0.023	0.022	0.015	0.13	0.1	0.09	1	1	1	1	1.2	1	1
Benzo(ghi)perylene	1	47	0.024	1.5	0	71	0.9405315	POTENTIALLY SUITABLE FOR USE	1.5	0.1	0.09	1	1	1	1	1	1	1	0.044	0.031	0.029	0.024	0.1	0.1	0.09	1	1	1	1	1	1	1
Benzo(k)fluoranthene	1	47	0.014	2	0	15	0.9695884	POTENTIALLY SUITABLE FOR USE	2	0.09	0.09	1	1	1	1	1.2	1	1	0.014	0.014	0.014	0.014	0.1	0.1	0.09	1	1	1	1	1.2	1	1
Chrysene	1	47	0.01	2.4	0	13	1.0818133	POTENTIALLY SUITABLE FOR USE	2.4	0.1	0.09	1	1.3	1	1	1.8	1	1	0.02	0.02	0.02	0.01	0.13	0.1	0.09	1	1.3	1	1	1.8	1	1
Dibenz(a,h)anthracene	1	47	0.023	1	0	1.3	0.8982662	POTENTIALLY SUITABLE FOR USE	1	0.09	0.09	1	1	1	1	1	1	1	0.023	0.023	0.023	0.023	0.1	0.1	0.09	1	1	1	1	1	1	1
Fluoranthene	1	47	0.017	5	0	1500	1.5993379	POTENTIALLY SUITABLE FOR USE	5	0.2	0.09	1	2.1	1	1	3.8	1	1	0.037	0.02	0.028	0.017	0.27	0.1	0.09	1	2.1	1	1	3.8	1	1
Fluorene	1	47	0.01	2.9	0	2800	1.1323005	POTENTIALLY SUITABLE FOR USE	1.5	0.09	0.09	1	1	1	1	1.5	0.73	2.9	0.02	0.01	0.01	0.01	0.1	0.1	0.09	1	1	1	1	1.5	0.73	2.9
Indeno(1,2,3,cd)pyrene	1	47	0.018	1.8	0	6.3	0.9665356	POTENTIALLY SUITABLE FOR USE	1.8	0.09	0.09	1	1	1	1	1.2	1	1	0.018	0.018	0.018	0.018	0.1	0.1	0.09	1	1	1	1	1.2	1	1
Naphthalene	1	47	0.011	13	9	2.3	3.4577483	FURTHER ASSESSMENT REQUIRED	5	0.4	0.51	1.9	1	1	0.84	4.1	1.4	1.7	0.062	0.046	0.022	0.011	0.1	0.1	0.09	1.9	1	1	0.84	4.1	1.4	1.7
Phenanthrene	1	47	0.032	6.9	0	1300	1.9699287	POTENTIALLY SUITABLE FOR USE	6.9	0.3	0.17	1	1.5	1	1	6	1	1	0.087	0.068	0.057	0.032	0.38	0.13	0.1	1	1.5	1	1	6	1	1
Pyrene	1	47			0	3700			6.2	0.18	0.09	1	2.7	1	1	4.9	1	1	0.037	0.021	0.027	0.015	0.2	0.1	0.09	1	2.7	1	1	4.9	1	1
Asbestos identified	Y/N																															
FOC (dimensionless)		**(mean)**																														
SOM (calculated)		**(mean)**																														
pH (su)	8.4	**(mean)**							8.1	8.3	8	8.1	8.5		8.4	8.3	8.3	8.6	8.76	8.59	9	8.61	8.6	8.7	8.3	8.1	8.5		8.4	8.3	8.3	8.6

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, App C2 TT2 Soils, Apps C3 Verification AP Soils, Holder 1 Soils,

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).

NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated								Soil Type	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2
								Location & Depth	BH302A	BH302A	BH302A	BH302A	BH5A	BH5A	BH5A DUP	BH5A	WS4	TP9	BH304	BH304	BH304	WS13 S 2	BH5A	BH5A	BH5A DUP	BH5A	TP9	WS4	BH304	BH304	BH304
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**US_{95}**	**Result of Significance Test**	**1.3-1.5**	**8.8-9.0**	**13.0-13.2**	**15.3-15.6**	**6.50**	**11.40**	**11.40**	**15.5**	**3.00**	**2.20**	**4.50-4.70**	**10.80-11.00**	**13.00-13.20**	**2.45**	**6.500**	**11.40**	**11.40**	**15.50**	**2.20**	**3.00**	**4.50-4.70**	**10.80-11.00**	**13.00-13.20**
Arsenic	3	47	1.9	17	0	40	7.9312127	POTENTIALLY SUITABLE FOR USE	3	3	3	3	11	6.8	4.5	2.7	7.7	11	3	3	3	9	11	6.8	4.5	2.7	11	7.7	3	3	3
Beryllium	0.06	0	0	0	0	73																									
Boron	3.5	47	0.1	3.5	0	11000	2.2489018	POTENTIALLY SUITABLE FOR USE	3.5	3.5	3.5	3.5	0.75	0.57	0.41	0.52	0.22	0.48	3.5	3.5	3.5	1.1	0.75	0.57	0.41	0.52	0.48	0.22	3.5	3.5	3.5
Cadmium	0.5	47	0.2	0.5	0	87	0.4678173	POTENTIALLY SUITABLE FOR USE	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.22	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2
Chromium (III)	1	27	8.9	30	0	890	23.799187	POTENTIALLY SUITABLE FOR USE					20	16	12	13	16	24	27	13	30	22.9									
Chromium (VI)	1.2	0	0	0	0	6.1																									
Copper	1	47	4.4	97	0	7300	31.662489	POTENTIALLY SUITABLE FOR USE	19	22	10	8	22	17	13	6.2	20	26	25	7	28	26.8	22	17	13	6.2	26	20	25	7	28
Lead	5	47	2.9	490	2	310	91.71178	POTENTIALLY SUITABLE FOR USE	10	10	9	5	4.9	6	6.3	5	8.4	12	15	5	17	29.6	4.9	6	6.3	5	12	8.4	15	5	17
Mercury, inorganic	0.4	47	0.085	1.5	0	240	0.4960387	POTENTIALLY SUITABLE FOR USE	0.4	0.4	0.4	0.4	0.1	0.1	0.1	0.1	0.13	0.17	0.4	0.4	0.4	0.5	0.1	0.1	0.1	0.1	0.17	0.13	0.4	0.4	0.4
Nickel	2	47	8.3	43	0	180	30.077011	POTENTIALLY SUITABLE FOR USE	30	35	14	14	29	24	18	9.2	23	36	36	12	43	29.6	29	24	18	9.2	36	23	36	12	43
Selenium	3	47	0.1	3	0	600	1.8921302	POTENTIALLY SUITABLE FOR USE	3	3	3	3	0.45	0.2	0.1	0.1	0.1	0.21	3	3	3	0.7	0.45	0.2	0.1	0.1	0.21	0.1	3	3	3
Vanadium	1	0	0	0	0	1200																									
Zinc	2	47	25.1	250	0	40000	85.374048	POTENTIALLY SUITABLE FOR USE	62	77	34	34	54	47	33	30	44	67	73	29	81	60.6	54	47	33	30	67	44	73	29	81
Cyanide (free)	1	7	1	1	0	800	1												1	1	1										
Phenol (total)	0.5	47	0.15	250	0	750	52.368916	POTENTIALLY SUITABLE FOR USE	62	77	34	34	0.5	0.5	0.5	0.5	0.5	0.5	0.15	0.15	0.15	3.4	54	47	33	30	67	44	73	29	81
Acenaphthene	1	47	0.008	1.9	0	3000	0.9941211	POTENTIALLY SUITABLE FOR USE	0.008	0.008	0.008	0.008	1	1	1	1	1.3	1	0.008	0.008	0.008	0.1	1	1	1	1	1	1.3	0.008	0.008	0.008
Acenaphthylene	1	47	0.012	1	0	2900	0.8879543	POTENTIALLY SUITABLE FOR USE	0.012	0.012	0.012	0.012	1	1	1	1	0.98	1	0.017	0.012	0.012	0.1	1	1	1	1	1	0.98	0.017	0.012	0.012
Anthracene	1	47	0.016	1.9	0	31000	0.9998712	POTENTIALLY SUITABLE FOR USE	0.016	0.016	0.016	0.016	1	1	1	1	1	1	0.016	0.016	0.016	0.22	1	1	1	1	1	1	0.016	0.016	0.016
Benz(a)anthracene	1	47	0.014	2.5	0	5.5	1.0900159	POTENTIALLY SUITABLE FOR USE	0.023	0.014	0.033	0.027	1	1	1	1	1	1	0.068	0.021	0.039	1.4	1	1	1	1	1	1	0.068	0.021	0.039
Benzo(a)pyrene	1	47	0.015	2.2	2	1.5	1.0228081	POTENTIALLY SUITABLE FOR USE	0.026	0.015	0.018	0.015	1	1	1	1	1	1	0.051	0.015	0.015	1.74	1	1	1	1	1	1	0.051	0.015	0.015
Benzo(b)fluoranthene	1	47	0.015	2.17	0	11	1.0173784	POTENTIALLY SUITABLE FOR USE	0.034	0.023	0.022	0.015	1	1	1	1	1	1	0.043	0.015	0.03	2.17	1	1	1	1	1	1	0.043	0.015	0.03
Benzo(ghi)perylene	1	47	0.024	1.5	0	71	0.9405315	POTENTIALLY SUITABLE FOR USE	0.044	0.031	0.029	0.024	1	1	1	1	1	1	0.062	0.024	0.041	1.14	1	1	1	1	1	1	0.062	0.024	0.041
Benzo(k)fluoranthene	1	47	0.014	2	0	15	0.9695884	POTENTIALLY SUITABLE FOR USE	0.014	0.014	0.014	0.014	1	1	1	1	1	1	0.027	0.014	0.014	0.85	1	1	1	1	1	1	0.027	0.014	0.014
Chrysene	1	47	0.01	2.4	0	13	1.0818133	POTENTIALLY SUITABLE FOR USE	0.02	0.02	0.02	0.01	1	1	1	1	1	1	0.04	0.02	0.06	1.39	1	1	1	1	1	1	0.04	0.02	0.06
Dibenz(a,h)anthracene	1	47	0.023	1	0	1.3	0.8982662	POTENTIALLY SUITABLE FOR USE	0.023	0.023	0.023	0.023	1	1	1	1	1	1	0.023	0.023	0.023	0.2	1	1	1	1	1	1	0.023	0.023	0.023
Fluoranthene	1	47	0.017	5	0	1500	1.5993379	POTENTIALLY SUITABLE FOR USE	0.037	0.02	0.028	0.017	1	1	1	1	1.5	1	0.045	0.021	0.042	2.23	1	1	1	1	1	1.5	0.045	0.021	0.042
Fluorene	1	47	0.01	2.9	0	2800	1.1323005	POTENTIALLY SUITABLE FOR USE	0.02	0.01	0.01	0.01	0.97	1	1	1	0.77	1.2	0.01	0.01	0.03	0.1	0.97	1	1	1	1.2	0.77	0.01	0.01	0.03
Indeno(1,2,3,cd)pyrene	1	47	0.018	1.8	0	6.3	0.9665356	POTENTIALLY SUITABLE FOR USE	0.018	0.018	0.018	0.018	1	1	1	1	1	1	0.041	0.018	0.018	1.1	1	1	1	1	1	1	0.041	0.018	0.018
Naphthalene	1	47	0.011	13	9	2.3	3.4577483	FURTHER ASSESSMENT REQUIRED	0.062	0.046	0.022	0.011	1.6	4.9	1	1	2.7	13	0.05	0.013	0.075	0.1	1.6	4.9	1	1	13	2.7	0.05	0.013	0.075
Phenanthrene	1	47	0.032	6.9	0	1300	1.9699287	POTENTIALLY SUITABLE FOR USE	0.087	0.068	0.057	0.032	1	1	1	1	1.8	1	0.091	0.038	0.15	0.45	1	1	1	1	1	1.8	0.091	0.038	0.15
Pyrene	1	47			0	3700			0.037	0.021	0.027	0.015	1	1	1	1	1.5	1	0.049	0.022	0.042	2.73	1	1	1	1	1	1.5	0.049	0.022	0.042
Asbestos identified	Y/N																														
FOC (dimensionless)		**(mean)**																													
SOM (calculated)		**(mean)**																													
pH (su)	8.4	**(mean)**							8.76	8.59	9	8.61	7.9	7.9	8	8	8.3	8.1	8.79	8.82	8.42	8.7	7.9	7.9	8	8	8.1	8.3	8.79	8.82	8.42

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: GLACIAL TILL
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, App C2 TT2 Soils, Apps C3 Verification AP S

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1						
						All values in mg/kg unless otherwise stated Location & Depth	HDP301	WS301	WS304	HDP301	WS301	WS304						
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.60-0.80**	**1.50-1.70**	**0.8-1.0**	**0.60-0.80**	**1.50-1.70**	**0.8-1.0**						
Aliphatics EC5-EC6	0.01	6	0.01	0.01	0	42	0.01	0.01	0.01	0.01	0.01	0.01						
Aliphatics >EC6-EC8	0.01	6	0.01	0.03	0	100	0.03	0.01	0.01	0.03	0.01	0.01						
Aliphatics >EC8-EC10	0.01	6	0.01	0.15	0	27	0.15	0.04	0.01	0.15	0.04	0.01						
Aliphatics >EC10-EC12	0.01	6	0.01	0.49	0	48	0.49	0.16	0.01	0.49	0.16	0.01						
Aliphatics >EC12-EC16	0.1	6	9.9	310	4	24	310	120	9.9	310	120	9.9						
Aliphatics >EC16-EC35	0.1	0	0	0	0	65000												
Aliphatics >EC35-EC44	0.1	0	0	0	0	65000												
Aromatics EC5-EC7	0.01	0	0	0	0	370												
Aromatics >EC7-EC8	0.01	6	0.01	0.01	0	860	0.01	0.01	0.01	0.01	0.01	0.01						
Aromatics >EC8-EC10	0.01	6	0.01	0.22	0	47	0.22	0.1	0.01	0.22	0.1	0.01						
Aromatics >EC10-EC12	0.01	6	0.01	0.74	0	250	0.74	0.24	0.01	0.74	0.24	0.01						
Aromatics >EC12-EC16	0.1	6	0.9	160	0	1800	130	160	0.9	130	160	0.9						
Aromatics >EC16-EC21	0.1	6	16	720	0	1900	490	720	16	490	720	16						
Aromatics >EC21-EC35	0.1	6	150	1800	0	1900	1700	1800	150	1700	1800	150						
Aromatics >EC35-EC44	0.1	0	0	0	0	1900												
						ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**											
						Aliphatics EC5-EC6	0.000	0.000	0.000	0.000	0.000	0.000						
						Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000	0.000	0.000						
					Considered additive	Aliphatics >EC8-EC10	0.006	0.001	0.000	0.006	0.001	0.000						
					Considered additive	Aliphatics >EC10-EC12	0.010	0.003	0.000	0.010	0.003	0.000						
					Considered additive	Aliphatics >EC12-EC16	12.917	5.000	0.413	12.917	5.000	0.413						
						Aliphatics >EC16-EC35												
						Aliphatics >EC35-EC44												
						Aromatics EC5-EC7												
						Aromatics >EC7-EC8	0.000	0.000	0.000	0.000	0.000	0.000						
					Considered additive	Aromatics >EC8-EC10	0.005	0.002	0.000	0.005	0.002	0.000						
					Considered additive	Aromatics >EC10-EC12	0.003	0.001	0.000	0.003	0.001	0.000						
					Considered additive	Aromatics >EC12-EC16	0.072	0.089	0.001	0.072	0.089	0.001						
						Aromatics >EC16-EC21	0.258	0.379	0.008	0.258	0.379	0.008						
					Considered additive	Aromatics >EC21-EC35	0.895	0.947	0.079	0.895	0.947	0.079						
						Aromatics >EC35-EC44												
						Hazard Index for ali>C8-C16	**12.932**	**5.005**	**0.413**	**12.932**	**5.005**	**0.413**						
						Hazard Index for aro>C8-C16	**0.080**	**0.092**	**0.001**	**0.080**	**0.092**	**0.001**						
						Hazard Index for aro>C16-C35	**1.153**	**1.326**	**0.087**	**1.153**	**1.326**	**0.087**						

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Risk parameter: Human health - residential without plant uptake (1%SOM)
Data set: Made Ground Phase 1
Client: Crowning Development Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report - Apps C1 2009, App C2 Other Zone 1, Apps C3 Valic

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG-P2	MG-P2	MG-P2	MG-P2								
						All values in mg/kg unless otherwise stated Location & Depth	WS308	WS309	WS308	WS309								
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.7-0.8**	**0.4-0.6**	**0.7-0.8**	**0.4-0.6**								
Aliphatics EC5-EC6	0.01	4	0.01	0.01	0	42	0.01	0.01	0.01	0.01								
Aliphatics >EC6-EC8	0.01	4	0.01	0.01	0	100	0.01	0.01	0.01	0.01								
Aliphatics >EC8-EC10	0.01	4	0.01	0.01	0	27	0.01	0.01	0.01	0.01								
Aliphatics >EC10-EC12	0.01	4	0.01	0.05	0	48	0.01	0.05	0.01	0.05								
Aliphatics >EC12-EC16	0.1	4	6.6	22	0	24	6.6	22	6.6	22								
Aliphatics >EC16-EC35	0.1	0	0	0	0	65000												
Aliphatics >EC35-EC44	0.1	0	0	0	0	65000												
Aromatics EC5-EC7	0.01	0	0	0	0	370												
Aromatics >EC7-EC8	0.01	4	0.01	0.01	0	860	0.01	0.01	0.01	0.01								
Aromatics >EC8-EC10	0.01	4	0.01	0.01	0	47	0.01	0.01	0.01	0.01								
Aromatics >EC10-EC12	0.01	4	0.01	0.08	0	250	0.01	0.08	0.01	0.08								
Aromatics >EC12-EC16	0.1	4	4.2	32	0	1800	4.2	32	4.2	32								
Aromatics >EC16-EC21	0.1	4	81	150	0	1900	81	150	81	150								
Aromatics >EC21-EC35	0.1	4	520	670	0	1900	670	520	670	520								
Aromatics >EC35-EC44	0.1	0	0	0	0	1900												

						ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**											
						Aliphatics EC5-EC6	0.000	0.000	0.000	0.000								
						Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000								
					Considered additive	Aliphatics >EC8-EC10	0.000	0.000	0.000	0.000								
					Considered additive	Aliphatics >EC10-EC12	0.000	0.001	0.000	0.001								
					Considered additive	Aliphatics >EC12-EC16	0.275	0.917	0.275	0.917								
						Aliphatics >EC16-EC35												
						Aliphatics >EC35-EC44												
						Aromatics EC5-EC7												
						Aromatics >EC7-EC8	0.000	0.000	0.000	0.000								
					Considered additive	Aromatics >EC8-EC10	0.000	0.000	0.000	0.000								
					Considered additive	Aromatics >EC10-EC12	0.000	0.000	0.000	0.000								
					Considered additive	Aromatics >EC12-EC16	0.002	0.018	0.002	0.018								
					Considered additive	Aromatics >EC16-EC21	0.043	0.079	0.043	0.079								
					Considered additive	Aromatics >EC21-EC35	0.353	0.274	0.353	0.274								
						Aromatics >EC35-EC44												
						Hazard Index for ali>C8-C16	**0.276**	**0.918**	**0.276**	**0.918**								
						Hazard Index for aro>C8-C16	**0.003**	**0.018**	**0.003**	**0.018**								
						Hazard Index for aro>C16-C35	**0.395**	**0.353**	**0.395**	**0.353**								

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: **Human health - residential without plant uptake (1%SOM)**

Data set: Made Ground Phase 2

Client: Crowning Development Limited

Site: Gould Street, Manchester

Job no.: C-21353

Lab. report no(s).: Amec Verification Report - Apps C1 2009, App C2 Other Zone 1, Apps C3 Valic

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	**NAT-P1**											
						All values in mg/kg unless otherwise stated **Location & Depth**	**BH302A**											
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**15.3-15.6**											
Aliphatics EC5-EC6	0.01	1	0.03	0.03	0	42	0.03											
Aliphatics >EC6-EC8	0.01	1	0.09	0.09	0	100	0.09											
Aliphatics >EC8-EC10	0.01	1	0.01	0.01	0	27	0.01											
Aliphatics >EC10-EC12	0.01	1	0.01	0.01	0	48	0.01											
Aliphatics >EC12-EC16	0.1	1	0.1	0.1	0	24	0.1											
Aliphatics >EC16-EC35	0.1	0	0	0	0	65000												
Aliphatics >EC35-EC44	0.1	0	0	0	0	65000												
Aromatics EC5-EC7	0.01	1	0.01	0.01	0	370	0.01											
Aromatics >EC7-EC8	0.01	1	0.02	0.02	0	860	0.02											
Aromatics >EC8-EC10	0.01	1	0.02	0.02	0	47	0.02											
Aromatics >EC10-EC12	0.01	1	3.1	3.1	0	250	3.1											
Aromatics >EC12-EC16	0.1	1	5.3	5.3	0	1800	5.3											
Aromatics >EC16-EC21	0.1	1	33	33	0	1900	33											
Aromatics >EC21-EC35	0.1	0	0	0	0	1900												
Aromatics >EC35-EC44	0.1	0	0	0	0	1900												

					ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**												
					Aliphatics EC5-EC6	0.001												
					Aliphatics >EC6-EC8	0.001												
				Considered additive	Aliphatics >EC8-EC10	0.000												
					Aliphatics >EC10-EC12	0.000												
					Aliphatics >EC12-EC16	0.004												
					Aliphatics >EC16-EC35													
					Aliphatics >EC35-EC44													
					Aromatics EC5-EC7	0.000												
					Aromatics >EC7-EC8	0.000												
				Considered additive	Aromatics >EC8-EC10	0.000												
					Aromatics >EC10-EC12	0.012												
					Aromatics >EC12-EC16	0.003												
					Aromatics >EC16-EC21	0.017												
				Considered additive	Aromatics >EC21-EC35													
					Aromatics >EC35-EC44													
					Hazard Index for ali>C8-C16	**0.005**												
					Hazard Index for aro>C8-C16	**0.016**												
					Hazard Index for aro>C16-C35													

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: ALL NATURAL
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: Amec Verification Report App C1 2009

Legend: Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.
Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).

NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1
							All values in mg/kg unless otherwise stated Location & Depth	WS307	WS10	TP01	WS02	HDP301	WS302	WS303	WS304	WS304	WS305	WS306	WS306	WS307	WS307	WS308	BH507	WS501	WS502A	WS504	WS505	TP01	WS01	WS02	WS10	HDP301	WS302	WS303	WS304
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**1.5-1.8**	**2.00**	**0.50**	**1.00**	**1.00-1.20**	**1.40-1.70**	**3.2-3.4**	**0.4-0.6**	**0.8-1.0**	**0.3-0.6**	**0.6-0.8**	**2.0-2.3**	**0.50-0.70**	**1.5-1.8**	**0.7-0.8**	**2.3-2.3**	**0.4-0.6**	**0.2-0.4**	**0.6-0.8**	**0.8-1.0**	**0.50**	**1.6-1.8**	**1.00**	**2.00**	**1.00-1.20**	**1.40-1.70**	**3.2-3.4**	**0.4-0.6**
Benzene	0.1	34	0.009	2.7	2	0.38		0.009	0.1	0.1	0.1	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.029	0.012	0.013	0.012	0.012	0.1	2.7	0.1	0.1	0.009	0.009	0.009	0.009
Toluene	0.1	34	0.005	7	0	860		0.005	0.1	0.1	0.1	0.005	0.005	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.029	0.012	0.013	0.012	0.012	0.1	7	0.1	0.1	0.005	0.005	0.005	0.005
Ethylbenzene	0.1	34	0.004	2	0	240		0.004	0.1	0.1	0.1	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.029	0.012	0.013	0.012	0.012	0.1	2	0.1	0.1	0.004	0.004	0.004	0.004
Xylene, o-	0.1	26	0.01	0.029	0	85		0.01				0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.029	0.012	0.013	0.012	0.012					0.01	0.01	0.01	0.01
Xylene, m- & p-	0.1	30	0.012	17	0	76		0.014				0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.029	0.012	0.013	0.012	0.012	0.1	17	0.1	0.1	0.014	0.014	0.014	0.014
MTBE	0.011	22	0.011	0.059	0	100		0.011				0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.059									0.011	0.011	0.011	0.011

Risk parameter: **Human health - residential without plant uptake (1%SOM)**

Data set: Made Ground Phase 1

Client: Crowning Development Limited

Site: Gould Street, Manchester

Job no.: C-21353

Lab. report no(s).: Amec Verification Report - Apps C1 2003 and 2009, Apps C2 Other Zone 1, T

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG-P1	MG-P1	MG-P1	MG-P1	MG-P1
						All values in mg/kg unless otherwise stated Location & Depth	WS304	WS305	WS306	WS306	WS307
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.8-1.0**	**0.3-0.6**	**0.6-0.8**	**2.0-2.3**	**0.50-0.70**
Benzene	0.1	34	0.009	2.7	2	0.38	0.009	0.009	0.009	0.009	0.009
Toluene	0.1	34	0.005	7	0	860	0.006	0.005	0.005	0.005	0.005
Ethylbenzene	0.1	34	0.004	2	0	240	0.004	0.004	0.004	0.004	0.004
Xylene, o-	0.1	26	0.01	0.029	0	85	0.01	0.01	0.01	0.01	0.01
Xylene, m- & p-	0.1	30	0.012	17	0	76	0.014	0.014	0.014	0.014	0.014
MTBE	0.011	22	0.011	0.059	0	100	0.011	0.011	0.011	0.011	0.011

Risk parameter: **Human health - residential without plant uptake (1%SO**
Data set: Made Ground Phase 1
Client: Crowning Development Limited
Site: Gould Street, Manchester
Job no.: C-21353
Lab. report no(s).: Amec Verification Report - Apps C1 2003 and 2009, Apps

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1	NAT-P1
						All values in mg/kg unless otherwise stated Location & Depth	WS2A	BH302A	BH302A	BH302A	BH302A	BH507	BH507	BH507	VBTW1	VBTW2	VBTW3	VBTW4	VBTW5	WS2A	BH302A	BH302A	BH302A	BH302A
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**3.20**	**1.3-1.5**	**8.8-9.0**	**13.0-13.2**	**15.3-15.6**	**5.0-5.3**	**11.5-11.8**	**14.5-15.0**	**4.10**	**4.1-4.3**	**4.0-4.2**	**4.5-4.7**	**4.3-4.5**	**3.20**	**1.3-1.5**	**8.8-9.0**	**13.0-13.2**	**15.3-15.6**
Benzene	0.1	18	0.009	0.154	0	0.38	0.1	0.009	0.009	0.009	0.009	0.012	0.012	0.011	0.012	0.021	0.011	0.154	0.06	0.1	0.009	0.009	0.009	0.009
Toluene	0.1	18	0.005	0.729	0	860	0.1	0.005	0.005	0.005	0.005	0.012	0.012	0.011	0.729	0.012	0.011	0.012	0.012	0.1	0.005	0.005	0.005	0.005
Ethylbenzene	0.1	18	0.004	0.1	0	240	0.1	0.004	0.004	0.004	0.004	0.012	0.012	0.011	0.045	0.012	0.011	0.019	0.012	0.1	0.004	0.004	0.004	0.004
Xylene, o-	0.01	12	0.01	0.177	0	85		0.01	0.01	0.01	0.01	0.012	0.012	0.011	0.177	0.012	0.011	0.062	0.012					
Xylene, m- & p-	0.014	12	0.011	0.385	0	76		0.014	0.014	0.014	0.014	0.012	0.012	0.011	0.385	0.012	0.011	0.097	0.012					
MTBE	0.011	12	0.011	0.024	0	100		0.011	0.011	0.011	0.011	0.024	0.024	0.022	0.024	0.024	0.023	0.023	0.024					

Risk parameter: **Human health - residential without plant uptake (1%SOM)**
Data set: NATURAL Phase 1
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: Amec Verification Report Apps C1 2003 and 2009, App C2 TT2 Soils, Apps C:

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).

NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	
						All values in mg/kg unless otherwise stated Location & Depth	BH5A	TP9	BH304	BH304	BH304	WS13 S 2	BH5A	TP9	BH304	BH304	BH304	
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**15.5**	**2.2**	**4.50-4.70**	**10.80-11.00**	**13.00-13.20**	**2.45**	**15.5**	**2.2**	**4.50-4.70**	**10.80-11.00**	**13.00-13.20**	
Benzene	0.1	11	0.009	0.1	0	0.38	0.1	0.1	0.009	0.009	0.027	0.012	0.1	0.1	0.009	0.009	0.027	
Toluene	0.1	11	0.005	0.1	0	860	0.1	0.1	0.005	0.005	0.02	0.012	0.1	0.1	0.005	0.005	0.02	
Ethylbenzene	0.1	11	0.004	0.1	0	240	0.1	0.1	0.004	0.004	0.012	0.012	0.1	0.1	0.004	0.004	0.012	
Xylene, o-	0.01	4	0.01	0.012	0	85			0.01	0.01	0.01	0.012						
Xylene, m- & p-	0.014	4	0.012	0.029	0	76			0.014	0.014	0.029	0.012						
MTBE	0.011	4	0.011	0.025	0	100			0.011	0.011	0.011	0.025						
1,2,4,5-tetrachlorobenzene	0.01	0	0	0	0	0.73												

Risk parameter: **Human health - residential without plant uptake (1%SOM)**

Data set: NATURAL Phase 2

Client: Crowning Developments Limited

Site: Gould Street, Manchester

Job no.: C21353

Lab. report no(s).: Amec Verification Report Apps C1 2003 and 2009, App C2 TT2 Soils, Apps C3

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate. Values in red are equal to, or greater than, the generic assessment criterion (GAC).

NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2	NAT-P2					
						All values in mg/kg unless otherwise stated Location & Depth	BH304	BH304	BH304	WS13 S 2	BH304	BH304	BH304					
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**4.50-4.70**	**10.80-11.00**	**13.00-13.20**	**2.45**	**4.50-4.70**	**10.80-11.00**	**13.00-13.20**					
Antimony	0.01	0	0	0	0	190												
Barium	0.01	0	0	0	0	790												
Mercury, elemental	0.01	0	0	0	0	0.24												
Molybdenum	0.01	0	0	0	0	250												
Thiocyanate	0.01	7	1	2.5	0	13	1	1	1	2.5	1	1	1					

Risk parameter: **Human health - residential with plant uptake (1%SOM)**
Data set: NATURAL - Phase 2
Client: Crowning Developments Limited
Site: Gould Street, Manchester
Job no.: C21353
Lab. report no(s).: Amec Verification Report App C1 2003 and 2009, App C2 TT2 Soils, Apps C3 '

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).

NAT denotes natural ground

Contamination Test Results (Groundwater)

Russell Sumner
Hydrock Consultants Ltd
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Festival Park
Stoke on Trent
ST1 5RY

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e: Russellsumner@hydrock.com

i2 Analytical Ltd.
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Croxley Green
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Watford,
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WD18 8YS

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Analytical Report Number : 22-33027

Project / Site name:	Gould Street Manchester	**Samples received on:**	14/01/2022
Your job number:	C 21353	**Samples instructed on/ Analysis started on:**	14/01/2022
Your order number:	PO13104	**Analysis completed by:**	21/01/2022
Report Issue Number:	1	**Report issued on:**	21/01/2022
Samples Analysed:	12 water samples		

Izabela Wójcik

Signed:

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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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 are representative of the samples submitted for analysis.

Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.6	7.7	7.5	7.3	7.5
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	650	990	750	1200	730
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	120	< 1.0	19	63	140
Complex Cyanide (Low Level)	µg/l	1	ISO 17025	120	< 1.0	19	63	140
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	µg/l	200	ISO 17025	1100	210	1500	200	< 200
Sulphate as SO4	µg/l	45	ISO 17025	98200	320000	156000	305000	145000
Chloride	mg/l	0.15	ISO 17025	23	120	27	110	41
Fluoride	µg/l	50	ISO 17025	87	99	180	180	190
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	64	63	150	190	590
Ammoniacal Nitrogen as NH3	µg/l	15	ISO 17025	78	77	180	240	720
Ammoniacal Nitrogen as NH4	µg/l	15	ISO 17025	82	81	190	250	760
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	7.06	8.24	5.96	13.6	4.14
Nitrate as N	mg/l	0.01	ISO 17025	4.13	1.53	2.59	0.29	1.73
Nitrate as NO3	mg/l	0.05	ISO 17025	18.3	6.79	11.5	1.31	7.68
Nitrite as N	µg/l	1	ISO 17025	< 1.0	11	16	4.4	29
Nitrite as NO2	µg/l	5	ISO 17025	< 5.0	38	51	15	96
Hardness - Total	mgCaCO3/l	1	ISO 17025	339	570	466	654	442
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenols by GC-MS								
Phenol	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
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	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
2-Chlorophenol	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
2-Nitrophenol	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
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols								
Total Phenols (monohydric)	µg/l	1	ISO 17025	3.9	3.7	2.4	2.5	2.7
Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	2.45	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	1.78	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.40	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	0.97	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	5.90	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	1.36	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	11.0	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	12.5	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	6.45	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	6.62	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	7.23	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	3.48	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	7.59	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.001	NONE	3.1	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	0.74	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.001	NONE	4.1	< 0.001	< 0.001	< 0.001	< 0.001
PAH Sums								
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	11	< 0.020	< 0.020	< 0.020	< 0.020
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.02	NONE	7.1	< 0.020	< 0.020	< 0.020	< 0.020
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.04	NONE	18	< 0.040	< 0.040	< 0.040	< 0.040
Total PAH								
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	75.6	< 0.16	< 0.16	< 0.16	< 0.16

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Boron (dissolved)	µg/l	10	ISO 17025	130	260	220	250	170
Calcium (dissolved)	mg/l	0.012	ISO 17025	72	110	110	130	100
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.090	0.011	0.10	0.041	0.043
Iron (dissolved)	µg/l	4	ISO 17025	90	11	100	41	43
Magnesium (dissolved)	mg/l	0.005	ISO 17025	39	74	47	79	46
Sodium (dissolved)	mg/l	0.01	ISO 17025	95	84	72	170	53
Aluminium (dissolved)	µg/l	1	ISO 17025	6.2	2.5	3.4	1.5	6.4
Antimony (dissolved)	µg/l	0.4	ISO 17025	0.5	0.8	1.3	0.8	0.5
Arsenic (dissolved)	µg/l	0.15	ISO 17025	1.46	0.79	1.09	1.54	1.00
Barium (dissolved)	µg/l	0.06	ISO 17025	310	39	120	49	49
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.10	0.03	0.04	1.4	0.04
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.9	1.0	2.2	2.8	2.0
Cobalt (dissolved)	µg/l	0.2	ISO 17025	1.2	0.4	0.9	5.0	1.1
Copper (dissolved)	µg/l	0.5	ISO 17025	1.0	1.4	3.5	4.0	1.9
Lead (dissolved)	µg/l	0.2	ISO 17025	0.4	< 0.2	< 0.2	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	490	43	150	1200	250
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	3.1	2.9	3.1	11	2.0
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.0	6.2	4.6	3.0	5.3
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	20.5
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.4	0.5	0.7	0.9	0.6
Zinc (dissolved)	µg/l	0.5	ISO 17025	1.5	1.8	3.0	4.7	11

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics & Oxygenates								
Benzene	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
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
Sum of m, p & o-Xylene	µg/l	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons								
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 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	190	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	370	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	430	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	1500	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	1900	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) $_{HS+EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	2500	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	2500	< 10	< 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 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	40	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	170	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	200	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	700	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	1100	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	1100	< 10	< 10	< 10	< 10
TPH-CWG Total C5 - C44 $_{EH+HS_1D_TOTAL_\#1_\#2_MS}$	µg/l	10	NONE	3600	< 10	< 10	< 10	< 10
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	< 1.0	< 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	< 1.0	< 1.0

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
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	< 1.0	< 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
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	< 1.0	< 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

Dichloromethane	µg/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Dichlorodifluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Trihalomethanes	µg/l	4	NONE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Total Trichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Total Dichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Trichloroethylene (TCE) + Tetrachloroethylene (PCE)	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total 1,2-Dichloroethene	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total 1,3-Dichloropropane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND	ND	ND	ND	ND
VOC % Match	%	10	NONE	0	0	0	0	0

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
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	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 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	< 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	< 0.05	< 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	2.5	< 0.01	< 0.01	< 0.01	< 0.01
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
2-Methylnaphthalene	µg/l	0.05	NONE	3.0	< 0.05	< 0.05	< 0.05	< 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	1.8	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	0.40	< 0.01	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	1.1	< 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	0.97	< 0.01	< 0.01	< 0.01	< 0.01
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	5.9	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	1.4	< 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	11	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	13	< 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	6.5	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	6.6	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	7.2	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	3.5	< 0.01	< 0.01	< 0.01	< 0.01

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136880	2136881	2136882	2136883	2136884
Sample Reference				MPBH701	MPBH702	MPBH703	MPBH705	MPBH706
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022	11/01/2022	12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
Benzo(a)pyrene	µg/l	0.01	ISO 17025	7.6	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	3.1	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	0.74	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	4.1	< 0.01	< 0.01	< 0.01	< 0.01
3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	Octadecane	ND	ND	ND	ND
SVOC % Match	%	N/A	NONE	99	0	0	0	0
SVOCs TICs Compound Name		N/A	NONE	Eicosane				
SVOC % Match	%	N/A	NONE	98				
SVOCs TICs Compound Name		N/A	NONE	Heneicosane				
SVOC % Match	%	N/A	NONE	98				
SVOCs TICs Compound Name		N/A	NONE	Tetradecane				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 1,3-dimethyl-				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Pentadecane				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 2,3,6-trimethyl-				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Naphthalene, 1,6,7-trimethyl-				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Hexadecane				
SVOC % Match	%	N/A	NONE	97				
SVOCs TICs Compound Name		N/A	NONE	Nonadecane				
SVOC % Match	%	N/A	NONE	97				

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

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	8.8	7.9	6.9	7.2	8.2
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	770	470	1600	1200	750
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	2.0	21	23	20	< 1.0
Complex Cyanide (Low Level)	µg/l	1	ISO 17025	2.0	21	23	20	< 1.0
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Thiocyanate as SCN	µg/l	200	ISO 17025	< 200	< 200	< 200	< 200	< 200
Sulphate as SO4	µg/l	45	ISO 17025	322000	129000	1450000	697000	197000
Chloride	mg/l	0.15	ISO 17025	81	36	27	42	43
Fluoride	µg/l	50	ISO 17025	370	270	81	170	490
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	52	140	290	35	38
Ammoniacal Nitrogen as NH3	µg/l	15	ISO 17025	63	170	350	42	47
Ammoniacal Nitrogen as NH4	µg/l	15	ISO 17025	67	180	370	44	49
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	6.67	4.85	11.2	4.98	14.6
Nitrate as N	mg/l	0.01	ISO 17025	0.06	2.48	0.18	0.32	0.04
Nitrate as NO3	mg/l	0.05	ISO 17025	0.26	11.0	0.78	1.41	0.16
Nitrite as N	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0	7.3	< 1.0
Nitrite as NO2	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	24	< 5.0
Hardness - Total	mgCaCO3/l	1	ISO 17025	332	238	1690	918	143
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenols by GC-MS								
Phenol	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
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	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
2-Chlorophenol	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
2-Nitrophenol	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
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols								
Total Phenols (monohydric)	µg/l	1	ISO 17025	4.2	3.1	2.7	2.4	7.3
Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.61
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	0.82
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.81
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.36
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.34
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	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
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	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PAH Sums								
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.04	NONE	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Total PAH								
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16	2.94

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Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Boron (dissolved)	µg/l	10	ISO 17025	120	120	130	500	210
Calcium (dissolved)	mg/l	0.012	ISO 17025	110	78	640	290	37
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.16	0.011	0.099	0.027	0.058
Iron (dissolved)	µg/l	4	ISO 17025	160	11	99	27	58
Magnesium (dissolved)	mg/l	0.005	ISO 17025	13	11	20	45	12
Sodium (dissolved)	mg/l	0.01	ISO 17025	88	63	97	75	150
Aluminium (dissolved)	µg/l	1	ISO 17025	13	18	190	2.6	21
Antimony (dissolved)	µg/l	0.4	ISO 17025	1.2	0.8	< 0.4	1.1	0.7
Arsenic (dissolved)	µg/l	0.15	ISO 17025	2.05	2.87	0.75	0.76	1.36
Barium (dissolved)	µg/l	0.06	ISO 17025	140	34	19	41	130
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.10	< 0.02	0.07	0.37	0.18
Chromium (dissolved)	µg/l	0.2	ISO 17025	0.2	3.1	1.4	1.3	0.7
Cobalt (dissolved)	µg/l	0.2	ISO 17025	0.4	0.3	11	2.8	0.6
Copper (dissolved)	µg/l	0.5	ISO 17025	0.9	2.6	1.3	2.1	0.8
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	0.2	0.2	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	45	31	2600	840	470
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.16	< 0.05	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	2.0	2.5	14	10	2.4
Selenium (dissolved)	µg/l	0.6	ISO 17025	2.0	4.0	1.0	1.0	< 0.6
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium (dissolved)	µg/l	0.2	ISO 17025	2.0	7.8	0.5	0.7	0.4
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.1	2.9	7.6	15	1.1

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Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Monoaromatics & Oxygenates								
Benzene	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
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
Sum of m, p & o-Xylene	µg/l	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons								
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 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	130
TPH-CWG - Aliphatic >C16 - C21 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	650
TPH-CWG - Aliphatic >C21 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	7000
TPH-CWG - Aliphatic >C16 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	7700
TPH-CWG - Aliphatic >C35 - C44 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) $_{HS+EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	7800
TPH-CWG - Aliphatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	7800
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 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG Total C5 - C44 $_{EH+HS_1D_TOTAL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	7800
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	< 1.0	< 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	< 1.0	< 1.0

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Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
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	< 1.0	< 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
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	< 1.0	< 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

Dichloromethane	µg/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Dichlorodifluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Trihalomethanes	µg/l	4	NONE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Total Trichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Total Dichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Trichloroethylene (TCE) + Tetrachloroethylene (PCE)	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total 1,2-Dichloroethene	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total 1,3-Dichloropropane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND	ND	ND	ND	ND
VOC % Match	%	10	NONE	0	0	0	0	0

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Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
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	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 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	< 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	< 0.05	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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	< 0.01	< 0.01	< 0.01	< 0.01	0.61
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	0.82
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.81
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	0.36
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	0.34
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

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136885	2136886	2136887	2136888	2136889
Sample Reference				MPBH707	MPBH709	MPBH711	MPBH713	MPBH714D
Sample Number				W01	W01	W01	W01	W01
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				11/01/2022	11/01/2022	12/01/2022	12/01/2022	11/01/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
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	< 0.10	< 0.10	< 0.10

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	ND	ND	ND	ND	Tricosane
SVOC % Match	%	N/A	NONE	0	0	0	0	99
SVOCs TICs Compound Name		N/A	NONE					Tetracosane
SVOC % Match	%	N/A	NONE					99
SVOCs TICs Compound Name		N/A	NONE					Docosane
SVOC % Match	%	N/A	NONE					99
SVOCs TICs Compound Name		N/A	NONE					Eicosane
SVOC % Match	%	N/A	NONE					98
SVOCs TICs Compound Name		N/A	NONE					Heneicosane
SVOC % Match	%	N/A	NONE					98
SVOCs TICs Compound Name		N/A	NONE					Nonadecane
SVOC % Match	%	N/A	NONE					98
SVOCs TICs Compound Name		N/A	NONE					Pentadecane
SVOC % Match	%	N/A	NONE					97
SVOCs TICs Compound Name		N/A	NONE					Hexadecane
SVOC % Match	%	N/A	NONE					97
SVOCs TICs Compound Name		N/A	NONE					Octadecane
SVOC % Match	%	N/A	NONE					97
SVOCs TICs Compound Name		N/A	NONE					
SVOC % Match	%	N/A	NONE					

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

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
General Inorganics					
pH	pH Units	N/A	ISO 17025	7.5	7.5
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	620	1600
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	10	20
Complex Cyanide (Low Level)	µg/l	1	ISO 17025	10	20
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0
Thiocyanate as SCN	µg/l	200	ISO 17025	< 200	< 200
Sulphate as SO4	µg/l	45	ISO 17025	162000	533000
Chloride	mg/l	0.15	ISO 17025	21	450
Fluoride	µg/l	50	ISO 17025	170	170
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	100	33
Ammoniacal Nitrogen as NH3	µg/l	15	ISO 17025	120	41
Ammoniacal Nitrogen as NH4	µg/l	15	ISO 17025	130	43
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	5.14	19.0
Nitrate as N	mg/l	0.01	ISO 17025	0.09	0.02
Nitrate as NO3	mg/l	0.05	ISO 17025	0.42	0.10
Nitrite as N	µg/l	1	ISO 17025	8.5	3.0
Nitrite as NO2	µg/l	5	ISO 17025	28	10
Hardness - Total	mgCaCO3/l	1	ISO 17025	341	1460
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002
Phenols by GC-MS					
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Total Phenols					
Total Phenols (monohydric)	µg/l	1	ISO 17025	2.8	2.6
Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5	< 0.5

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Speciated PAHs					
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	0.32
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	1.81
Anthracene	µg/l	0.01	ISO 17025	< 0.01	0.44
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	1.98
Pyrene	µg/l	0.01	ISO 17025	< 0.01	2.30
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	1.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	0.94
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.94
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.42
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	0.89
Indeno(1,2,3-cd)pyrene	µg/l	0.001	NONE	< 0.001	0.33
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.001	NONE	< 0.001	0.43
PAH Sums					
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.020	1.4
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.02	NONE	< 0.020	0.76
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.04	NONE	< 0.040	2.1
Total PAH					
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	11.8

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Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Heavy Metals / Metalloids					
Boron (dissolved)	µg/l	10	ISO 17025	130	150
Calcium (dissolved)	mg/l	0.012	ISO 17025	92	170
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.006	0.018
Iron (dissolved)	µg/l	4	ISO 17025	6.1	18
Magnesium (dissolved)	mg/l	0.005	ISO 17025	27	250
Sodium (dissolved)	mg/l	0.01	ISO 17025	69	180
Aluminium (dissolved)	µg/l	1	ISO 17025	12	100
Antimony (dissolved)	µg/l	0.4	ISO 17025	0.8	1.2
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.59	3.47
Barium (dissolved)	µg/l	0.06	ISO 17025	51	27
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.13	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	1.3	2.2
Cobalt (dissolved)	µg/l	0.2	ISO 17025	3.3	2.8
Copper (dissolved)	µg/l	0.5	ISO 17025	1.8	2.4
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	900	870
Mercury (dissolved)	µg/l	0.05	ISO 17025	0.38	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	15	5.6
Selenium (dissolved)	µg/l	0.6	ISO 17025	1.2	1.7
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20	< 0.20
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.3	2.6
Zinc (dissolved)	µg/l	0.5	ISO 17025	3.4	6.1

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Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Monoaromatics & Oxygenates					
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0
Sum of m, p & o-Xylene	µg/l	2	ISO 17025	< 2.0	< 2.0
Petroleum Hydrocarbons					
TPH-CWG - Aliphatic >C5 - C6 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	50
TPH-CWG - Aliphatic >C16 - C21 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	56
TPH-CWG - Aliphatic >C21 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	240
TPH-CWG - Aliphatic >C16 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	300
TPH-CWG - Aliphatic >C35 - C44 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) $_{HS+EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	350
TPH-CWG - Aliphatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	350
TPH-CWG - Aromatic >C5 - C7 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0
TPH-CWG - Aromatic >C10 - C12 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	30
TPH-CWG - Aromatic >C16 - C21 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	40
TPH-CWG - Aromatic >C21 - C35 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	70
TPH-CWG - Aromatic >C35 - C44 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	140
TPH-CWG - Aromatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	140
TPH-CWG Total C5 - C44 $_{EH+HS_1D_TOTAL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	490
VOCs					
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0

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Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0

Dichloromethane	µg/l	3	NONE	< 3.0	< 3.0
Dichlorodifluoromethane	µg/l	1	NONE	< 1.0	< 1.0
Total Trihalomethanes	µg/l	4	NONE	< 4.0	< 4.0
Total Trichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0
Total Dichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0
Trichloroethylene (TCE) + Tetrachloroethylene (PCE)	ug/l	2	NONE	< 2.0	< 2.0
Total 1,2-Dichloroethene	ug/l	2	NONE	< 2.0	< 2.0
Total 1,3-Dichloropropane	ug/l	2	NONE	< 2.0	< 2.0
Tetrachloroethane	ug/l	2	NONE	< 2.0	< 2.0

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND	ND
VOC % Match	%	10	NONE	0	0

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
SVOCs					
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	0.32
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	1.8
Anthracene	µg/l	0.01	ISO 17025	< 0.01	0.44
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	2.0
Pyrene	µg/l	0.01	ISO 17025	< 0.01	2.3
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	1.0
Chrysene	µg/l	0.01	ISO 17025	< 0.01	0.94
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.94
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.42

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Analytical Report Number: 22-33027
Project / Site name: Gould Street Manchester

Your Order No: PO13104

Lab Sample Number				2136890	2136891
Sample Reference				MPBH715	WS701
Sample Number				W01	W01
Depth (m)				None Supplied	None Supplied
Date Sampled				12/01/2022	12/01/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**		
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	0.89
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	0.33
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	0.43
3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10

SVOCs TICs

SVOCs TICs Compound Name		N/A	NONE	ND	Pyrene, 1-methyl-
SVOC % Match	%	N/A	NONE	0	98
SVOCs TICs Compound Name		N/A	NONE		Octadecane
SVOC % Match	%	N/A	NONE		98
SVOCs TICs Compound Name		N/A	NONE		Benzo[e]pyrene
SVOC % Match	%	N/A	NONE		98
SVOCs TICs Compound Name		N/A	NONE		Eicosane
SVOC % Match	%	N/A	NONE		97
SVOCs TICs Compound Name		N/A	NONE		Heneicosane
SVOC % Match	%	N/A	NONE		97
SVOCs TICs Compound Name		N/A	NONE		Dibenzo[def,mno]chrysene
SVOC % Match	%	N/A	NONE		97
SVOCs TICs Compound Name		N/A	NONE		7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8-dione
SVOC % Match	%	N/A	NONE		96
SVOCs TICs Compound Name		N/A	NONE		Phenanthrene, 2-methyl-
SVOC % Match	%	N/A	NONE		95
SVOCs TICs Compound Name		N/A	NONE		Nonadecane
SVOC % Match	%	N/A	NONE		95
SVOCs TICs Compound Name		N/A	NONE		
SVOC % Match	%	N/A	NONE		

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

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Analytical Report Number : 22-33027
Project / Site name: Gould Street Manchester

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-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 (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
Phenols, speciated, in water, by GCMS	Determination of speciated phenols in water by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
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
Complex cyanide (Low level) in water	Determination of complex cyanide by calculation. 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
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
Fluoride in water	Determination of fluoride in water by 1:1 ratio with a buffer solution followed by Ion Selective Electrode. Accredited matrices: SW, PW, GW.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
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 - LOW LEVEL 1 ug/l	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
Nitrite 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 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
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
Thiocyanate in water	Determination of thiocyanate in water by discreet analyser (colorimetry). Accredited matrices SW, GW, PW.	In house method based on SMWW 4500-CN-M. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
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	NONE
Tentatively identified compounds (SVOC) in water	Determination of semi-volatile organic compounds total ion count in water by extraction with hexane followed by GC-MS followed by a full library scan.	In-house method based on USEPA 8270	L070-PL	W	NONE

Analytical Report Number : 22-33027
Project / Site name: Gould Street Manchester

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
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE
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
Tentatively identified compounds (VOC) in water	Determination of volatile organic compounds total ion count in water by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073B-PL	W	NONE
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
Speciated EPA-16 PAHs in water (LOW LEVEL Dets)	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270 (low level)	L102B-PL	W	NONE
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
Ammonia as NH3 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the 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
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
Ammonium as NH4 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the 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
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE
Volatile organic compounds in water extended	Determination of volatile organic compounds in water by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	NONE
Cr (III) in water	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Low level 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
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

Analytical Report Number : 22-33027
Project / Site name: Gould Street Manchester

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
Free cyanide (low level) in water	Determination of free cyanide by distillation followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Bromate in Water	Determination of bromate in waters based on ion chromatography. Accredited matrices GW, PW, SW.	In house method based on Standard Methods for the Analysis of Water and Waste Water, method 4500	L008-PL	W	ISO 17025
Specific PAH sums in water	Determination of PAH compounds in water by extraction in hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
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

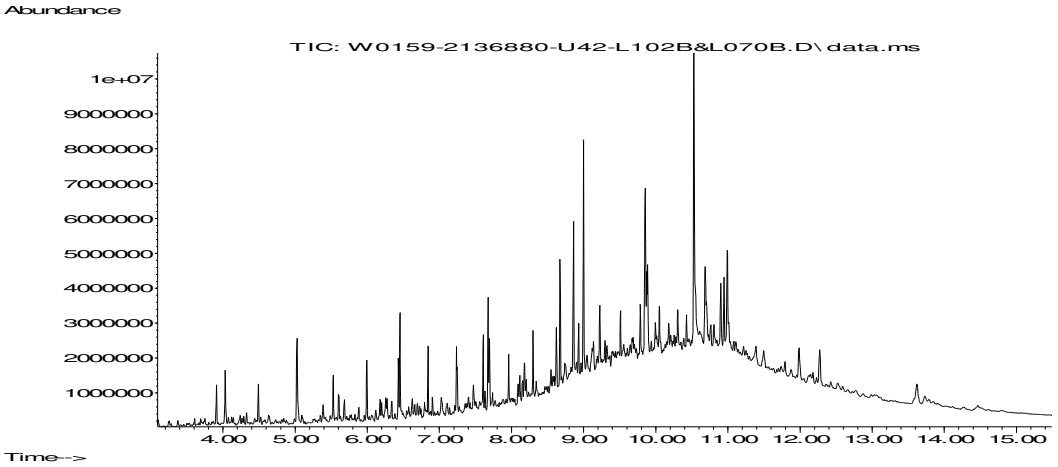
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

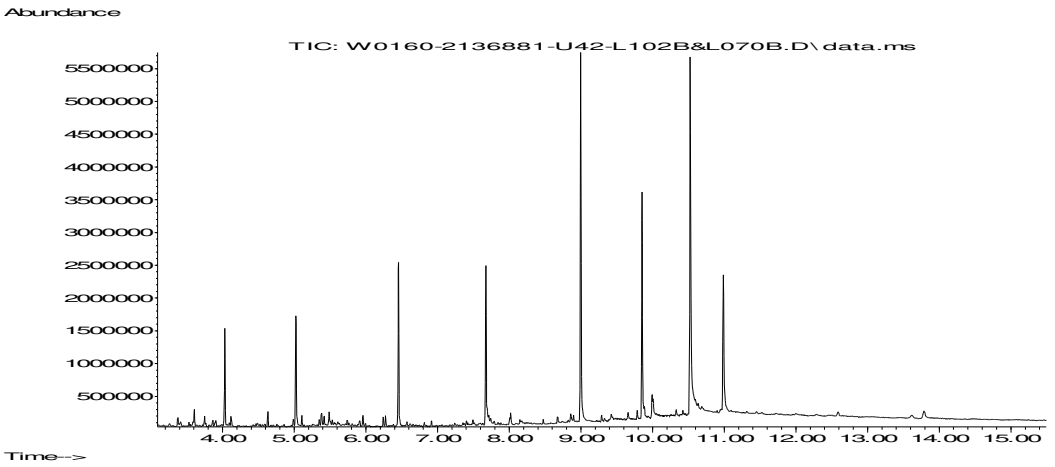
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

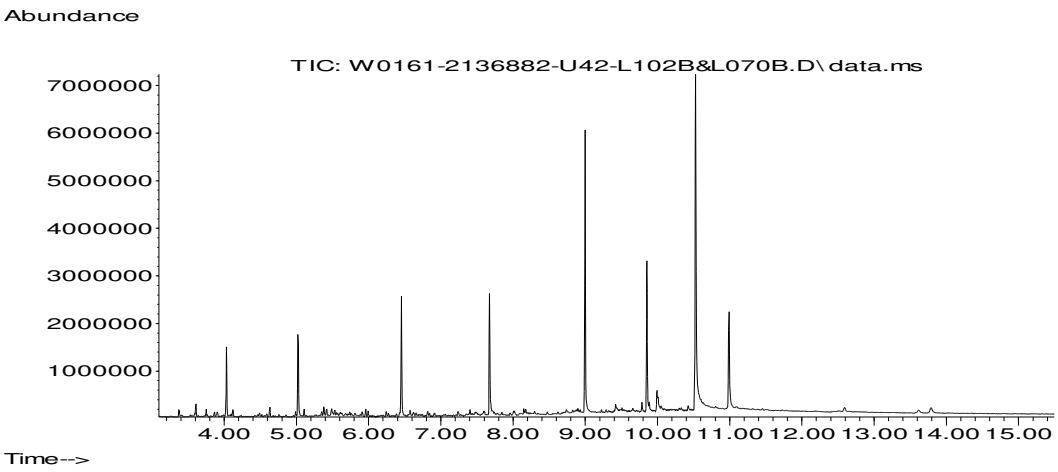
Information in Support of Analytical Results

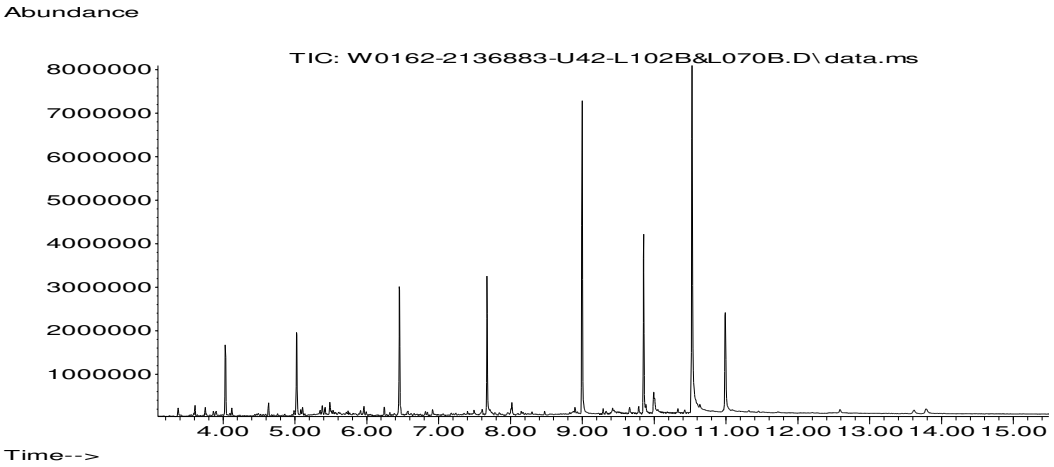
List of HWOL Acronyms and Operators

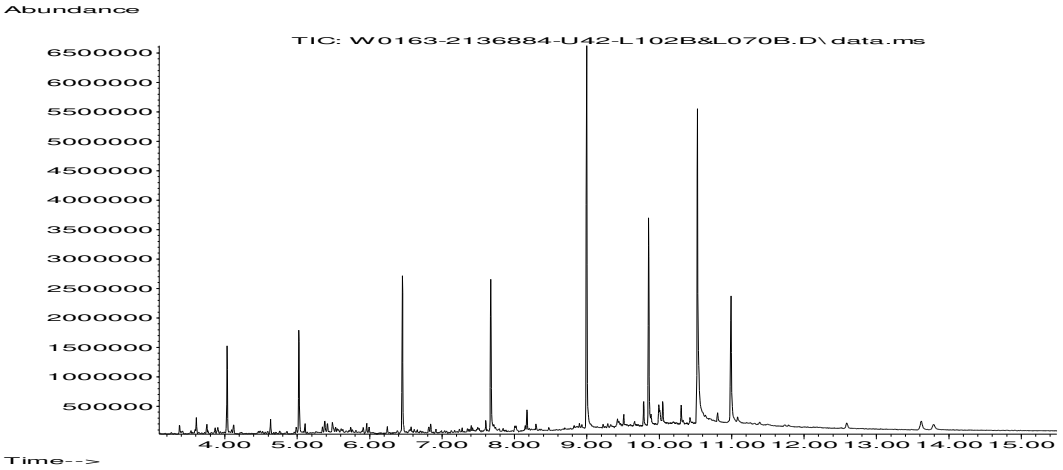
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column 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

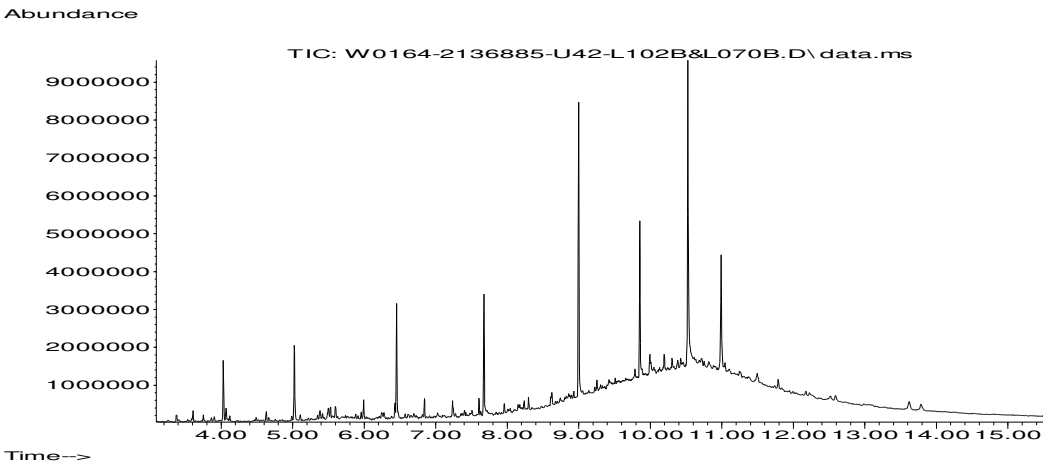

Abundance
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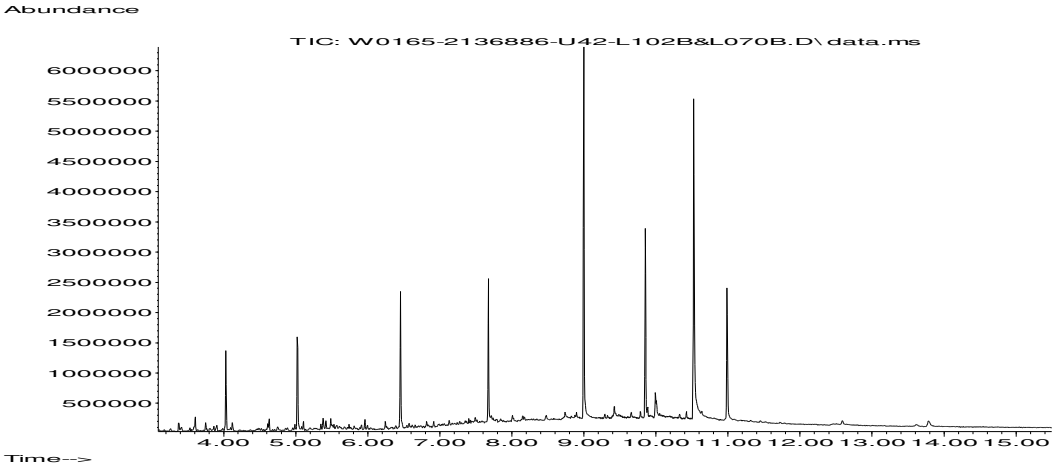

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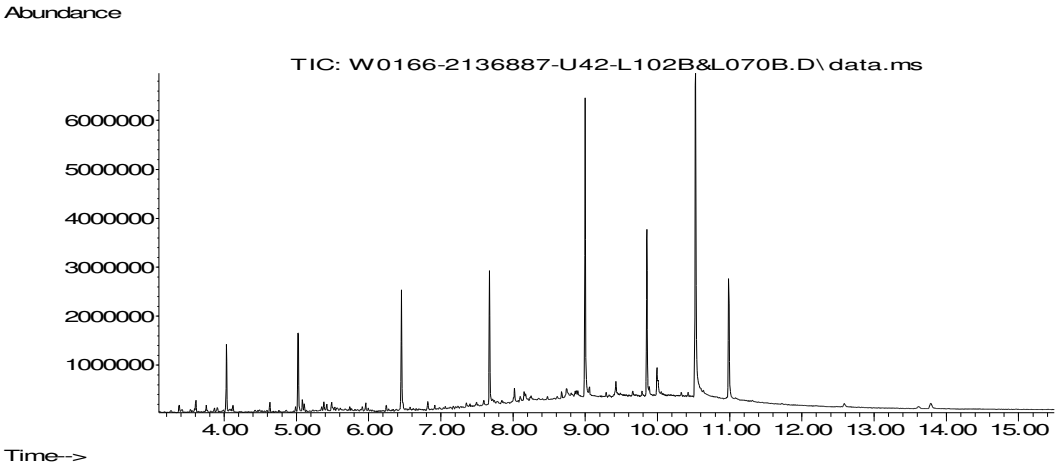

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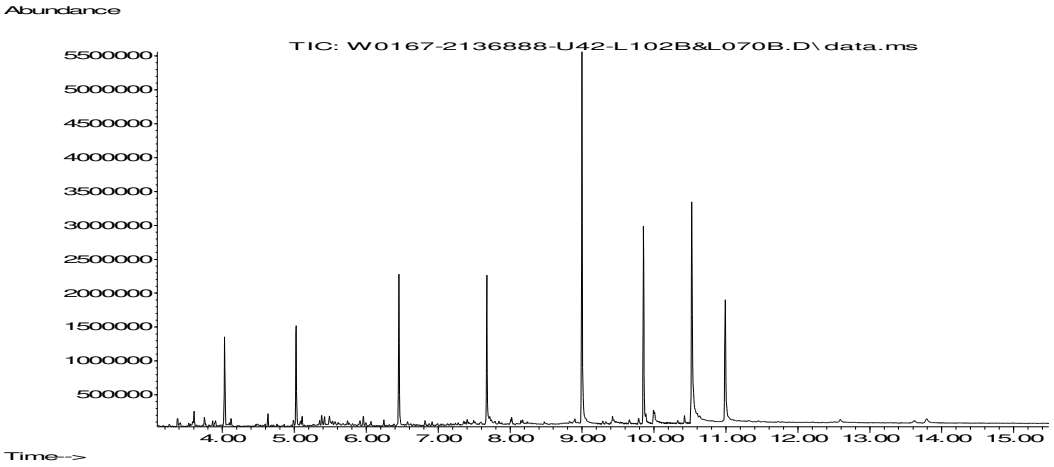

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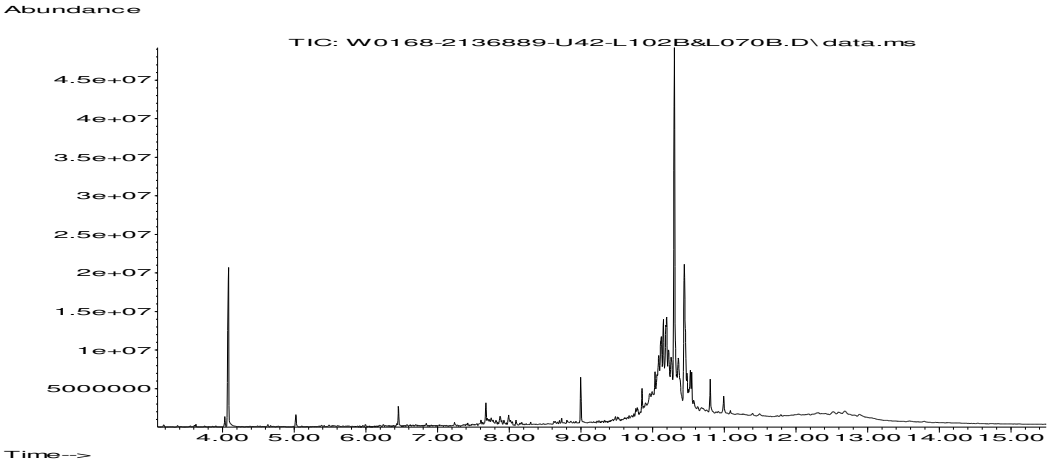

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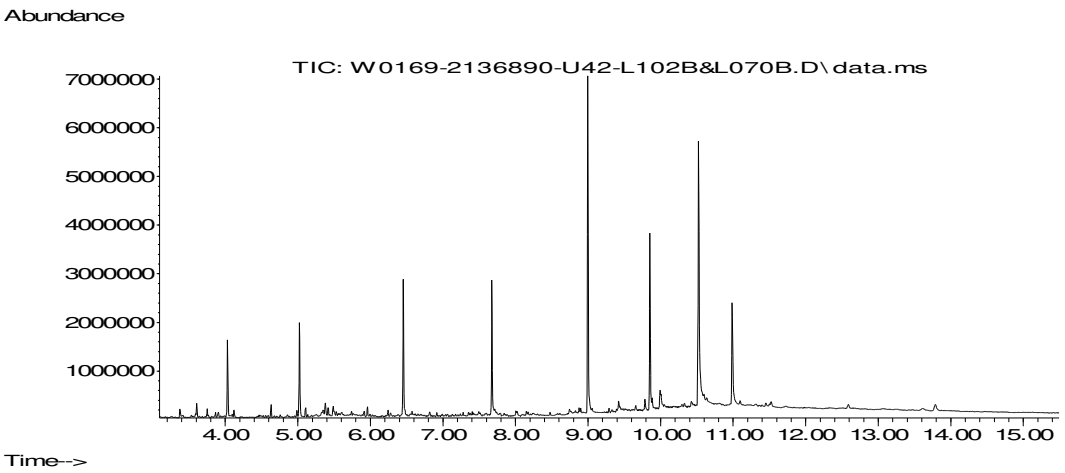

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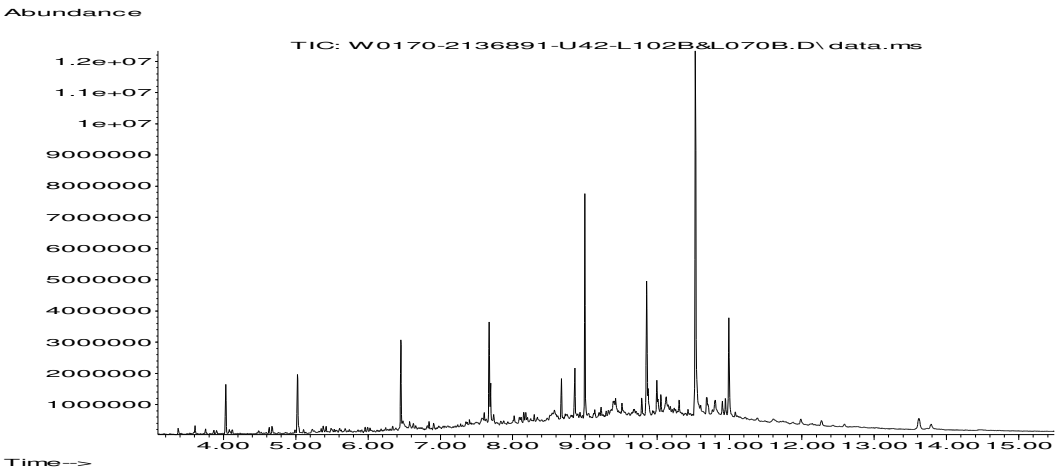

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Analytical Report Number : 22-34061

Project / Site name:	Gould Street	**Samples received on:**	20/01/2022
Your job number:	C-21353	**Samples instructed on/ Analysis started on:**	20/01/2022
Your order number:	PO11951	**Analysis completed by:**	26/01/2022
Report Issue Number:	1	**Report issued on:**	26/01/2022
Samples Analysed:	8 water samples		

Signed: Karolina Marek

Karolina Marek
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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Preliminary reports provided at the request of the client should be considered as incomplete and have not been through the complete quality control procedure.
Results contained in preliminary reports may be subject to change and therefore should not be used as a basis for decision making, except at the risk of the client.
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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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
General Inorganics								
pH	pH Units	N/A	ISO 17025	7.8	7.7	7.6	7.0	7.2
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	920	700	740	1300	1800
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	6.6	130	53	25
Complex Cyanide (Low Level)	µg/l	1	ISO 17025	< 1.0	6.6	130	53	25
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	4.8	< 1.0	< 1.0
Thiocyanate as SCN	µg/l	200	ISO 17025	< 200	< 200	760	< 200	< 200
Sulphate as SO4	µg/l	45	ISO 17025	297000	169000	131000	392000	1390000
Chloride	mg/l	0.15	ISO 17025	110	22	45	130	43
Fluoride	µg/l	50	ISO 17025	130	120	200	87	78
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	< 15	180	190	1000	130
Ammoniacal Nitrogen as NH3	µg/l	15	ISO 17025	17	220	230	1300	150
Ammoniacal Nitrogen as NH4	µg/l	15	ISO 17025	18	230	240	1300	160
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	3.70	4.43	4.18	6.66	11.0
Nitrate as N	mg/l	0.01	ISO 17025	1.71	0.08	2.70	0.32	0.11
Nitrate as NO3	mg/l	0.05	ISO 17025	7.57	0.37	12.0	1.41	0.47
Nitrite as N	µg/l	1	ISO 17025	13	3.0	12	140	< 1.0
Nitrite as NO2	µg/l	5	ISO 17025	42	9.8	38	460	< 5.0
Hardness - Total	mgCaCO3/l	1	ISO 17025	571	383	431	588	1670
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Phenols by GC-MS								
Phenol	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
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	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
2-Chlorophenol	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
2-Nitrophenol	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
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Phenols								
Total Phenols (monohydric)	µg/l	1	ISO 17025	2.7	1.9	7.2	8.6	8.0
Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Speciated PAHs								
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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	0.001	NONE	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
PAH Sums								
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.04	NONE	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Total PAH								
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Heavy Metals / Metalloids								
Boron (dissolved)	µg/l	10	ISO 17025	150	97	110	270	94
Calcium (dissolved)	mg/l	0.012	ISO 17025	110	95	99	180	610
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	7.1	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.005	0.010	0.069	0.14	0.45
Iron (dissolved)	µg/l	4	ISO 17025	5.0	9.8	69	140	450
Magnesium (dissolved)	mg/l	0.005	ISO 17025	72	35	45	33	36
Sodium (dissolved)	mg/l	0.01	ISO 17025	100	55	50	150	120
Aluminium (dissolved)	µg/l	1	ISO 17025	11	9.4	3.3	11	18
Antimony (dissolved)	µg/l	0.4	ISO 17025	0.5	0.7	0.9	< 0.4	< 0.4
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.72	0.62	0.80	0.86	0.77
Barium (dissolved)	µg/l	0.06	ISO 17025	40	41	55	28	31
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.03	0.14	0.05	0.09	0.03
Chromium (dissolved)	µg/l	0.2	ISO 17025	2.0	7.1	4.8	3.1	2.8
Cobalt (dissolved)	µg/l	0.2	ISO 17025	0.5	3.6	1.6	2.7	12
Copper (dissolved)	µg/l	0.5	ISO 17025	5.6	2.3	4.4	4.0	3.3
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	100	720	460	610	2400
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	0.80	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	3.5	18	3.2	7.8	16
Selenium (dissolved)	µg/l	0.6	ISO 17025	4.8	0.8	4.8	3.1	1.5
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tin (dissolved)	µg/l	0.2	ISO 17025	0.20	0.45	0.32	< 0.20	0.42
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.6	0.3	0.6	0.8	0.3
Zinc (dissolved)	µg/l	0.5	ISO 17025	2.8	12	4.2	6.3	11
Monoaromatics & Oxygenates								
Benzene	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
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
Sum of m, p & o-Xylene	µg/l	2	ISO 17025	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
Petroleum Hydrocarbons								
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 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) $_{HS+EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 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 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH-CWG Total C5 - C44 $_{EH+HS_1D_TOTAL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
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	< 1.0	< 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	< 1.0	< 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	< 1.0	< 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
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	< 1.0	< 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

Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
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
Dichloromethane	µg/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Dichlorodifluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Trihalomethanes	µg/l	4	NONE	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Total Trichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Total Dichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Trichloroethylene (TCE) + Tetrachloroethylene (PCE)	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total 1,2-Dichloroethene	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total 1,3-Dichloropropane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND	ND	ND	ND	ND

Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**					
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	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 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	< 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	< 0.05	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
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

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142146	2142147	2142148	2142149	2142150
Sample Reference				MPBH702	MPBH715	MPBH706	MPBH713	MPBH711
Sample Number				1	1	1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
Time Taken				0900	0900	0900	0900	0900
Analytical Parameter (Water Analysis)	Units	Limit of detection	Accreditation Status					
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	< 0.10	< 0.10	< 0.10

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

Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
General Inorganics						
pH	pH Units	N/A	ISO 17025	7.0	7.6	7.2
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	760	300	2200
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	600	27	720
Complex Cyanide (Low Level)	µg/l	1	ISO 17025	590	26	720
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	17	1.4	4.8
Thiocyanate as SCN	µg/l	200	ISO 17025	700	< 200	35000
Sulphate as SO4	µg/l	45	ISO 17025	195000	18200	896000
Chloride	mg/l	0.15	ISO 17025	69	30	220
Fluoride	µg/l	50	ISO 17025	66	68	130
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	450	170	51000
Ammoniacal Nitrogen as NH3	µg/l	15	ISO 17025	540	200	61000
Ammoniacal Nitrogen as NH4	µg/l	15	ISO 17025	570	220	65000
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	5.38	4.34	44.8
Nitrate as N	mg/l	0.01	ISO 17025	3.20	0.35	0.27
Nitrate as NO3	mg/l	0.05	ISO 17025	14.2	1.57	1.20
Nitrite as N	µg/l	1	ISO 17025	5.1	6.4	8.5
Nitrite as NO2	µg/l	5	ISO 17025	17	21	28
Hardness - Total	mgCaCO3/l	1	ISO 17025	321	131	841
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002	< 0.002
Phenols by GC-MS						
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	11.2
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Total Phenols						
Total Phenols (monohydric)	µg/l	1	ISO 17025	19	7.6	34
Total Phenols (GC-MS)	µg/l	0.5	NONE	< 0.5	< 0.5	11.2

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Speciated PAHs						
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	139
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	10.1
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	2.64
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	1.67
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	0.47	1.35
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.79	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	0.81	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	0.36	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	0.38	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.63	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.23	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	0.40	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.001	NONE	< 0.001	< 0.001	< 0.001
PAH Sums						
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.020	0.86	< 0.020
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.04	NONE	< 0.040	0.86	< 0.040
Total PAH						
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	4.07	155

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Heavy Metals / Metalloids						
Boron (dissolved)	µg/l	10	ISO 17025	110	16	150
Calcium (dissolved)	mg/l	0.012	ISO 17025	100	45	260
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	8.0	8.6	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.29	0.031	0.51
Iron (dissolved)	µg/l	4	ISO 17025	290	31	510
Magnesium (dissolved)	mg/l	0.005	ISO 17025	17	4.6	45
Sodium (dissolved)	mg/l	0.01	ISO 17025	67	20	230
Aluminium (dissolved)	µg/l	1	ISO 17025	3.6	11	1.3
Antimony (dissolved)	µg/l	0.4	ISO 17025	0.4	2.8	< 0.4
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.58	0.59	3.02
Barium (dissolved)	µg/l	0.06	ISO 17025	26	26	27
Cadmium (dissolved)	µg/l	0.02	ISO 17025	0.28	< 0.02	< 0.02
Chromium (dissolved)	µg/l	0.2	ISO 17025	8.0	8.6	4.5
Cobalt (dissolved)	µg/l	0.2	ISO 17025	16	0.3	5.4
Copper (dissolved)	µg/l	0.5	ISO 17025	4.0	2.4	2.6
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	0.3	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	340	87	800
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	14	1.2	7.5
Selenium (dissolved)	µg/l	0.6	ISO 17025	3.8	< 0.6	5.2
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.5	1.1	0.8
Zinc (dissolved)	µg/l	0.5	ISO 17025	9.0	5.6	11
Monoaromatics & Oxygenates						
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	44.2
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	11.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	26.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	44.7
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	35.8
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Sum of m, p & o-Xylene	µg/l	2	ISO 17025	< 2.0	< 2.0	80

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Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Petroleum Hydrocarbons						
TPH-CWG - Aliphatic >C5 - C6 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 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
TPH-CWG - Aliphatic >C8 - C10 $_{HS_1D_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	320	< 10
TPH-CWG - Aliphatic >C16 - C35 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	320	< 10
TPH-CWG - Aliphatic >C35 - C44 $_{EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) $_{HS+EH_1D_AL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	320	< 10
TPH-CWG - Aliphatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	320	< 10
TPH-CWG - Aromatic >C5 - C7 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0	44
TPH-CWG - Aromatic >C7 - C8 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0	11
TPH-CWG - Aromatic >C8 - C10 $_{HS_1D_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0	160
TPH-CWG - Aromatic >C10 - C12 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	360
TPH-CWG - Aromatic >C12 - C16 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	650
TPH-CWG - Aromatic >C16 - C21 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	200
TPH-CWG - Aromatic >C21 - C35 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 $_{EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	1400
TPH-CWG - Aromatic (C5 - C44) $_{HS+EH_1D_AR_\#1_\#2_MS}$	µg/l	10	NONE	< 10	< 10	1400
TPH-CWG Total C5 - C44 $_{EH+HS_1D_TOTAL_\#1_\#2_MS}$	µg/l	10	NONE	< 10	320	1400

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
VOCs						
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 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
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	44.2
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	11.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	26.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	44.7
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	35.8
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	2.9
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	3.9
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	4.6
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	40.1
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0

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Analytical Report Number: 22-34061
Project / Site name: Gould Street

Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	3	NONE	< 3.0	< 3.0	< 3.0
Dichlorodifluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0
Total Trihalomethanes	µg/l	4	NONE	< 4.0	< 4.0	< 4.0
Total Trichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0
Total Dichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0
Trichloroethylene (TCE) + Tetrachloroethylene (PCE)	ug/l	2	NONE	< 2.0	< 2.0	< 2.0
Total 1,2-Dichloroethene	ug/l	2	NONE	< 2.0	< 2.0	< 2.0
Total 1,3-Dichloropropane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0
Tetrachloroethane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0

VOCs TICs

VOCs TICs Compound Name		10	NONE	ND	ND	ND

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Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
SVOCs						
Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	11
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	140
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	10
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	2.6
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	2.9
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	1.7
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	0.47	1.4
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	2.4
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.79	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	0.81	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	0.36	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	0.38	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.63	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	0.23	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	0.40	< 0.01

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Project / Site name: Gould Street

Lab Sample Number				2142151	2142152	2142153
Sample Reference				BH303A	BH305	BH301
Sample Number				1	1	1
Depth (m)				None Supplied	None Supplied	None Supplied
Date Sampled				18/01/2022	18/01/2022	18/01/2022
Time Taken				1700	1700	1700
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01

3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10

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

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 22-34061
Project / Site name: Gould Street

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
Phenols, speciated, in water, by GCMS	Determination of speciated phenols in water by extraction in hexane followed by GC-MS.	In-house method based on USEPA 8270	L070-PL	W	NONE
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
Complex cyanide (Low level) in water	Determination of complex cyanide by calculation. 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
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
Fluoride in water	Determination of fluoride in water by 1:1 ratio with a buffer solution followed by Ion Selective Electrode. Accredited matrices: SW, PW, GW.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
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 - LOW LEVEL 1 ug/l	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
Nitrite 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 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
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
Thiocyanate in water	Determination of thiocyanate in water by discreet analyser (colorimetry). Accredited matrices SW, GW, PW.	In house method based on SMWW 4500-CN-M. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
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	NONE
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	NONE

Analytical Report Number : 22-34061
Project / Site name: Gould Street

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
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
Tentatively identified compounds (VOC) in water	Determination of volatile organic compounds total ion count in water by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073B-PL	W	NONE
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
Speciated EPA-16 PAHs in water (LOW LEVEL Dets)	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270 (low level)	L102B-PL	W	NONE
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
Ammonia as NH3 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the 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
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
Ammonium as NH4 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the 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
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE
Volatile organic compounds in water extended	Determination of volatile organic compounds in water by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	NONE
Cr (III) in water	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Low level 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
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
Free cyanide (low level) in water	Determination of free cyanide by distillation followed by colorimetry.Accredited matrices SW, GW, PW.	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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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 22-34061
Project / Site name: Gould Street

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
Bromate in Water	Determination of bromate in waters based on ion chromatography. Accredited matrices GW, PW, SW.	In house method based on Standard Methods for the Analysis of Water and Waste Water, method 4500	L008-PL	W	ISO 17025
Specific PAH sums in water	Determination of PAH compounds in water by extraction in hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE
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

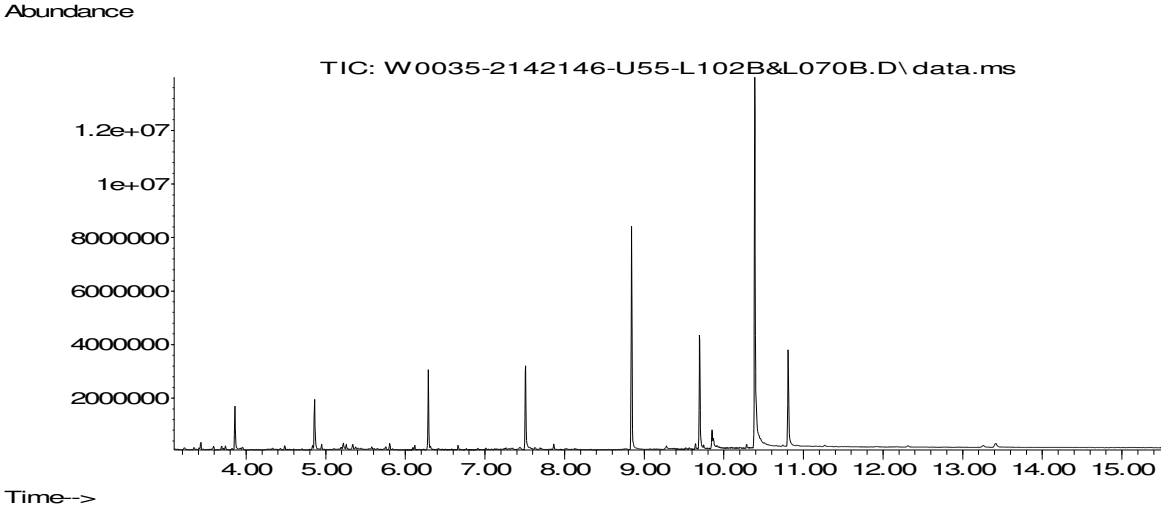
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

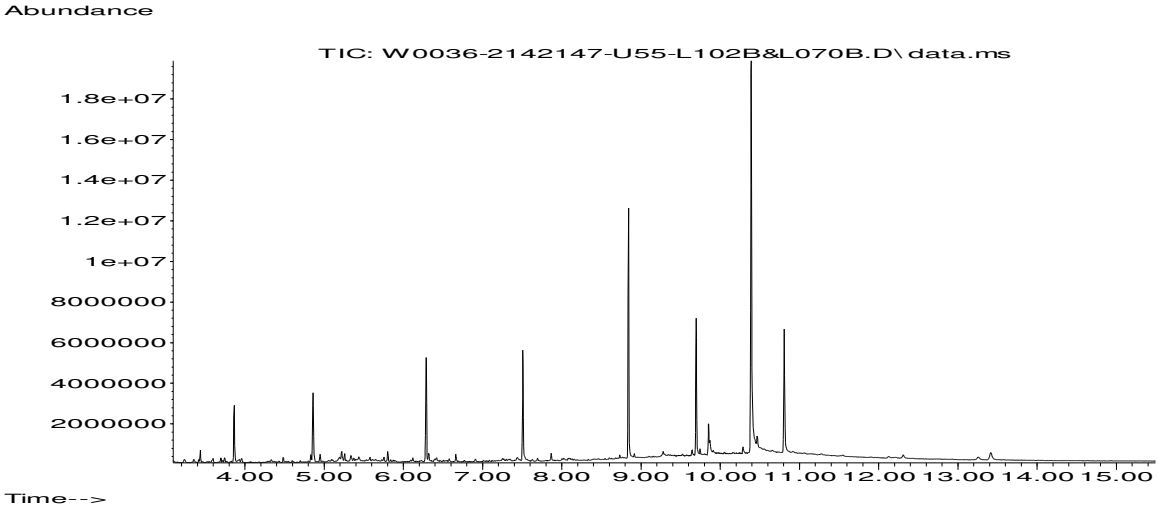
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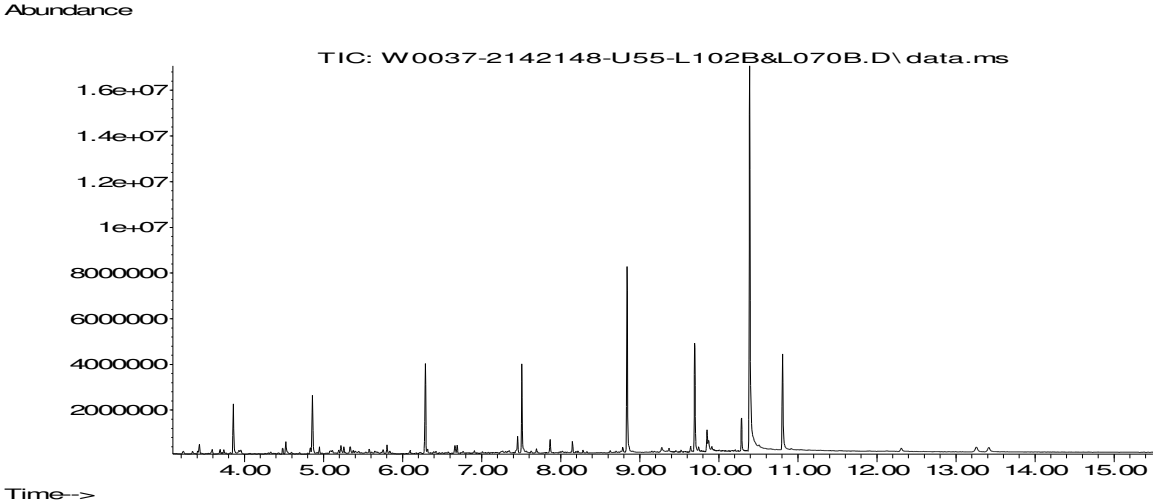
Information in Support of Analytical Results

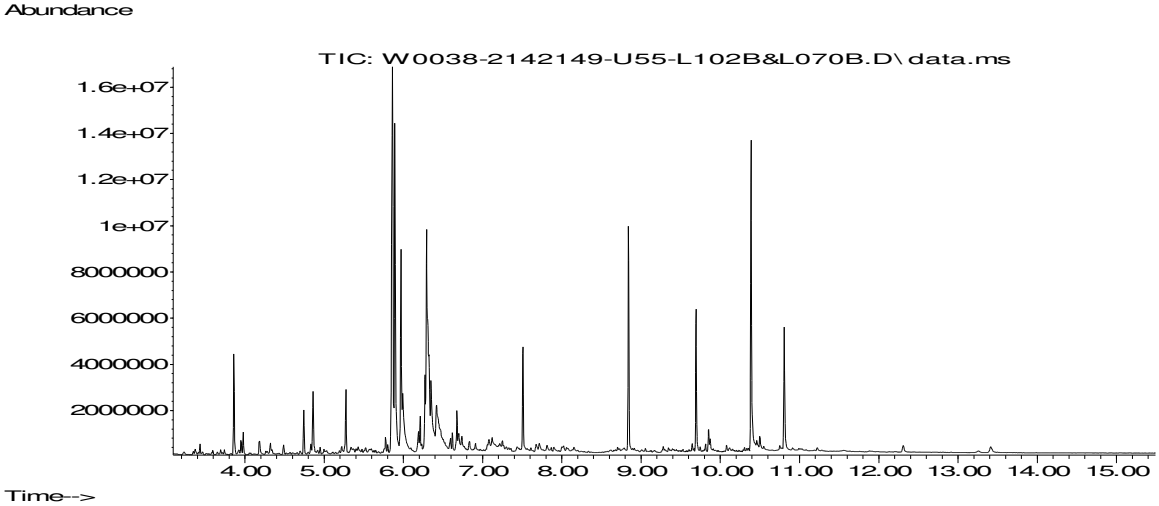
List of HWOL Acronyms and Operators

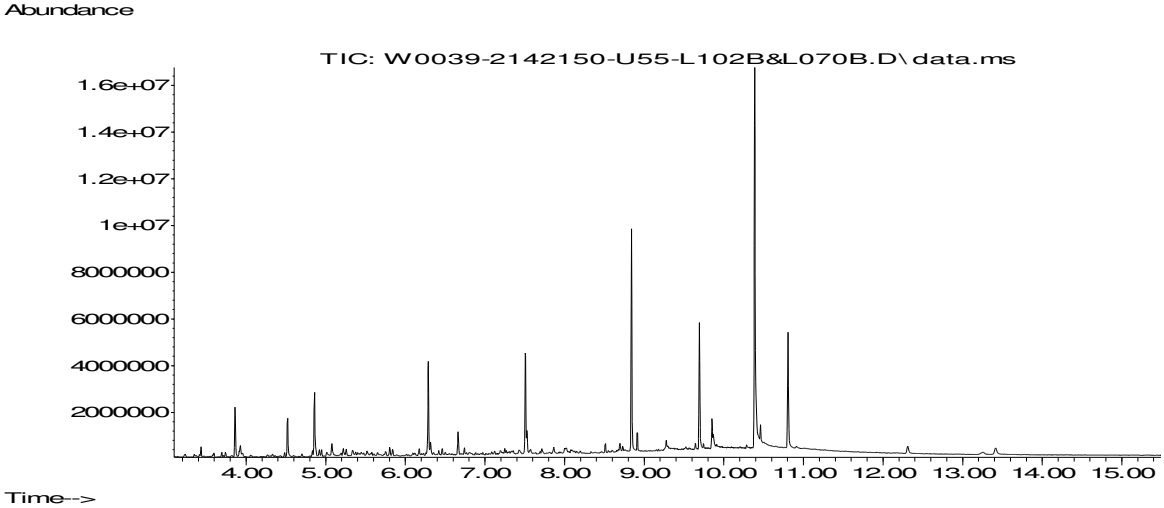
Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column 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

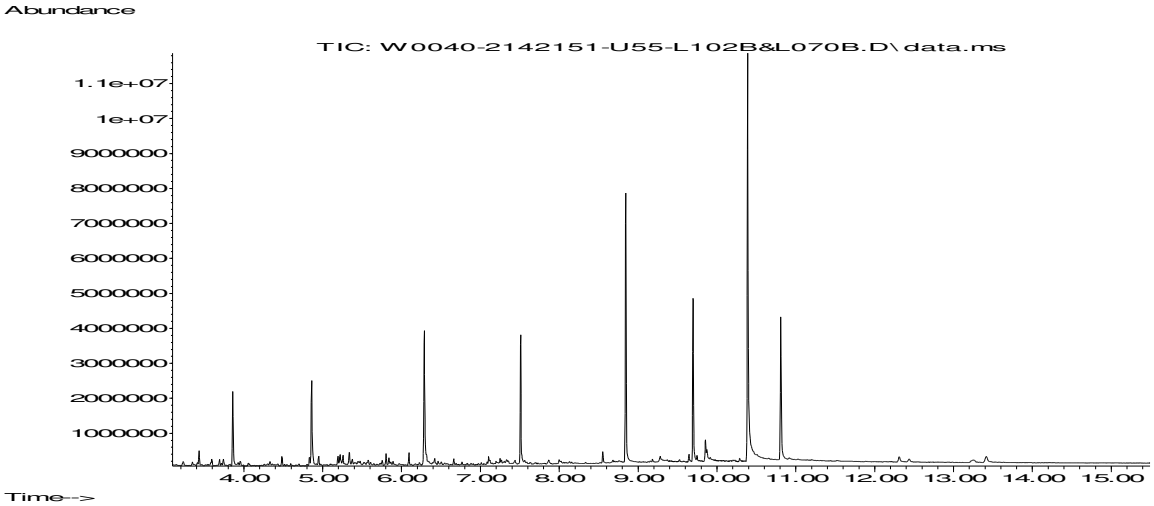

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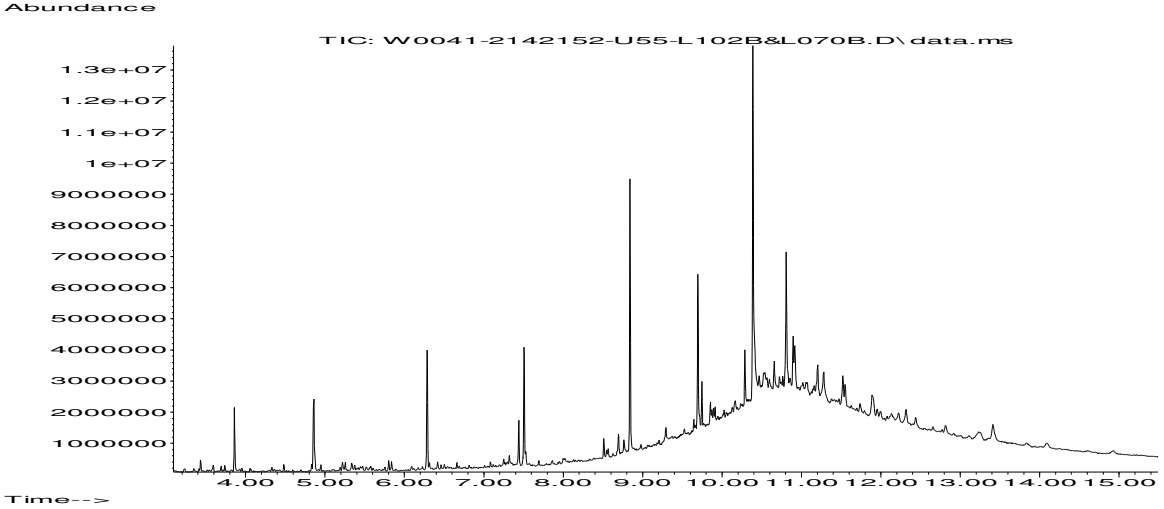

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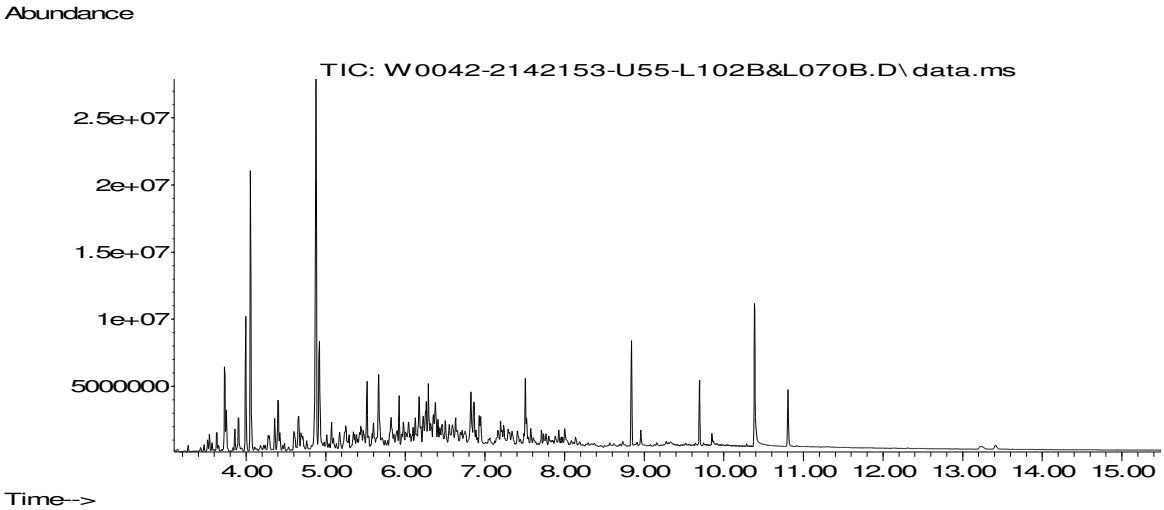

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RTM Datasheets

Summary of Remedial Targets Methodology Screening

Hydrock

Hydrock Scenario: Scenario D - DWS & EQS (inland)
RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples
Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Perched Made Ground
Client: Crowning Developments Limited
Site: Gould Street

Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

2013/39/EU Annex I
P = priority substance
PH = priority hazardous substances.
WFD Designation (2015 Directions)
OP = Other substance identical to previous legislation
SP = Specific Pollutant

JAGDAG Hazardous Substances Determination (UK)
H Hazardous substance
NP Non-hazardous pollutant
(blank) Not included in assessment

CAS / AGS Number	Chemicals of Potential Concern (concentrations in µg/l)	WFD Designation	Hazardous Substance Status	Summary of Sample Data						Value Being Compared to Target = Maximum Value	Water Quality Target (Exceeded if Red		No. Samples Exceeding Water Quality Target		No. Samples above LoD Exceeding Water		Notes
				No. of Samples	No. of Samples > LoD	Limit of Detection	Minimum Value	Maximum Value	95-%ile Value		DWS	Inland Waters EQS	DWS	Inland Waters EQS	DWS	Inland Waters EQS	EQS compared to dissolved metals as an initial screen, with no adjustment for bioavailability or ABC.
7440-22-4	Silver (Ag) (dissolved)			1	0	0.05	<0.05	<0.05	<0.05	<0.05	n/a	0.05		0		0	
7429-90-5	Aluminium (Al) (dissolved)			1	1	1	100	100	100	100	200	n/a	0		0		
7440-38-2	Arsenic (As) (dissolved)	SP	H	1	1	0.15	3.47	3.47	3.47	3.47	10	50	0	0	0	0	
7440-42-8	Boron (B) (dissolved)		NP	1	1	10	150	150	150	150	1000	2000	0	0	0	0	
7440-39-3	Barium (Ba) (dissolved)			1	1	0.06	27	27	27	27	1300	n/a	0		0		
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP	1	0	0.02	<0.02	<0.02	<0.02	<0.02	5	0.08	0	0	0	0	EQS (inland) dependent on hardness of receiving surface water environment
7440-48-4	Cobalt (Co) (dissolved)		NP	1	1	0.2	2.8	2.8	2.8	2.8	n/a	3		0		0	
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H	1	0	5	<5	<5	<5	<5	n/a	3.4		1		0	
16065-83-1	Chromium (III) (Cr) (dissolved)	SP		1	1	0.2	2.2	2.2	2.2	2.2	n/a	4.7		0		0	
7440-47-3	Chromium (Cr) (total) (dissolved)			1	1	0.2	2.2	2.2	2.2	2.2	50	n/a	0		0		
7440-50-8	Copper (Cu) (dissolved)	SP	NP	1	1	0.5	2.4	2.4	2.4	2.4	2000	1	0	1	0	1	Bioavailable EQS (inland)
7439-89-6	Iron (Fe) (dissolved)	SP		1	1	4	18	18	18	18	200	1000	0	0	0	0	
7439-97-6	Mercury (Hg) (dissolved)	PH	H	1	0	0.05	<0.05	<0.05	<0.05	<0.05	1	0.07	0	0	0	0	
P1286	Manganese (Mn) (dissolved)	SP		1	1	0.05	870	870	870	870	50	123	1	1	1	1	Bioavailable EQS (inland)
7440-23-5	Sodium (Na) (dissolved)			1	1	10	180000	180000	180000	180000	200000	n/a	0		0		
7440-02-0	Nickel (Ni) (dissolved)	*P*	NP	1	1	0.5	5.6	5.6	5.6	5.6	20	4	0	1	0	1	Bioavailable EQS (inland)
7439-92-1	Lead (Pb) (dissolved)	*P*	H	1	0	0.2	<0.2	<0.2	<0.2	<0.2	10	1.2	0	0	0	0	Bioavailable EQS (inland)
7440-36-0	Antimony (Sb) (dissolved)		NP	1	1	0.4	1.2	1.2	1.2	1.2	5	n/a	0		0		
7782-49-2	Selenium (Se) (dissolved)		NP	1	1	0.6	1.7	1.7	1.7	1.7	10	n/a	0		0		
7440-31-5	Tin (Sn) (dissolved)			1	0	0.2	<0.2	<0.2	<0.2	<0.2	n/a	25		0		0	
7440-62-2	Vanadium (V) (dissolved)			1	1	0.2	2.6	2.6	2.6	2.6	n/a	20		0		0	EQS (inland) dependent on hardness of receiving surface water environment
7440-66-6	Zinc (Zn) (dissolved)	SP	NP	1	1	0.5	6.1	6.1	6.1	6.1	n/a	12.3		0		0	Bioavailable EQS (inland) + ambient background concentration (ABC)
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP	1	0	1	<1	<1	<1	<1	n/a	1		0		0	
57-12-5	Cyanide (total)			1	1	1	20	20	20	20	50	n/a	0		0		
P1140	Ammonium (NH_4^+)		NP	1	1	15	43	43	43	43	500	n/a	0		0		
P1238	Ammnoniacal Nitrogen (as N)		NP	1	1	15	33	33	33	33	n/a	300		0		0	
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP	1	1	15	41	41	41	41	n/a	n/a					
15541-45-4	Bromate (BrO_3)			1	0	2	<2	<2	<2	<2	10	n/a	0		0		
16887-00-6	Chloride (Cl^-)			1	1	150	450000	450000	450000	450000	250000	250000	1	1	1	1	
16984-48-8	Fluoride (F^-)			1	1	50	170	170	170	170	1500	1000	0	0	0	0	EQS (inland) dependent on hardness of receiving surface water environment
P1348	Nitrate (NO_3^-)			1	1	50	100	100	100	100	50000	n/a	0		0		
P1349	Nitrite (NO_2^-)			1	1	5	10	10	10	10	500	n/a	0		0		
14808-79-8	Sulfate (SO_4^{2-})			1	1	45	533000	533000	533000	533000	250000	400000	1	1	1	1	
P1134	pH (min.) (su)			1	1	0	7.5	7.5	7.5	7.5	6.5	6	0	0	0	0	
P1134	pH (max.) (su)			1	1	0	7.5	7.5	7.5	7.5	9.5	9	0	0	0	0	
P1287	Electrical conductivity (µS/cm)			1	1	10	1600	1600	1600	1600	2500	n/a	0		0		
120-12-7	Anthracene	*PH*	H	1	1	0.01	0.44	0.44	0.44	0.44	n/a	0.1		1		1	
50-32-8	Benzo(a)pyrene	*PH*	H	1	1	0.01	0.89	0.89	0.89	0.89	0.01	0.00017	1	1	1	1	Benzo(a)pyrene EQS used as marker substance for the group of benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene & indeno (1,2,3-cd)pyrene
206-44-0	Fluoranthene	*P*	H	1	1	0.01	1.98	1.98	1.98	1.98	n/a	0.0063		1		1	
91-20-3	Naphthalene	P	NP	1	0	0.01	<0.01	<0.01	<0.01	<0.01	n/a	2		0		0	
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	*P*	H	1	1	0.04	2.1	2.1	2.1	2.1	0.1	n/a	1		1		
P1877	Phenol	SP	NP	1	0	0.05	<0.05	<0.05	<0.05	<0.05	n/a	7.7		0		0	
P1407	Ali EC5-EC6			1	0	1	<1	<1	<1	<1	15000	10	0	0	0	0	n-hexane fall within this fraction
P1408	Ali >EC6-EC8			1	0	1	<1	<1	<1	<1	15000	10	0	0	0	0	n-heptane falls within this fraction
P1409	Ali >EC8-EC10			1	0	1	<1	<1	<1	<1	300	10	0	0	0	0	n-octane and n-nonane fall within this fraction
P1410	Ali >EC10-EC12			1	0	10	<10	<10	<10	<10	300	10	0	0	0	0	
P1411	Ali >EC12-EC16			1	1	10	50	50	50	50	300	10	0	1	0	1	
P1938	Ali >EC16-EC35			1	1	10	300	300	300	300	n/a	10		1		1	
P1415	Ali >EC35-EC44			1	0	10	<10	<10	<10	<10	n/a	10		0		0	
P1441	Aro EC5-EC7			1	0	1	<1	<1	<1	<1	1	10	0	0	0	0	Benzene wholly representative of this fraction
P1355	Aro >EC7-EC8			1	0	1	<1	<1	<1	<1	700	10	0	0	0	0	Toluene wholly representative of this fraction
P1356	Aro >EC8-EC10			1	0	1	<1	<1	<1	<1	300	10	0	0	0	0	Ethylbenzene / xylene / trimethylbenzene representative of this range
P1357	Aro >EC10-EC12			1	0	10	<10	<10	<10	<10	90	10	0	0	0	0	Naphthalene often forms a reasonable percentage of this fraction
P1358	Aro > EC12-EC16			1	1	10	30	30	30	30	90	10	0	1	0	1	2-methylnaphthalene, acenpthylene, acenapthene falls within this fraction
P1359	Aro >EC16-EC21			1	1	10	40	40	40	40	90	10	0	1	0	1	fluorene, anthracene, phenanthrene, pyrene falls within this range
P1360	Aro >EC21-EC35			1	1	10	70	70	70	70	90	10	0	1	0	1	Benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(cd)pyrene fall within this fraction
P1362	Aro >EC35-EC44			1	0	10	<10	<10	<10	<10	n/a	10		0		0	

Summary of Remedial Targets Methodology Screening

Hydrock

RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples
Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Perched Made Ground
Client: Crowning Developments Limited
Site: Gould Street

Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

P = priority substance
PH = priority hazardous substances.
WFD Designation (2015 Directions)
OP = Other substance identical to previous legislation
SP = Specific Pollutant

JAGDAG Hazardous Substances Determination (UK)
H Hazardous substance
NP Non-hazardous pollutant
(blank) Not included in assessment

CAS / AGS Number	Chemicals of Potential Concern (concentrations in µg/l)	WFD Designation	Hazardous Substance Status	Summary of Sample Data						Value Being Compared to Target = Maximum Value	Water Quality Target (Exceeded if Red)		No. Samples Exceeding Water Quality Target		No. Samples above LoD Exceeding Water		Notes
				No. of Samples	No. of Samples > LoD	Limit of Detection	Minimum Value	Maximum Value	95-%ile Value		DWS	Inland Waters EQS	DWS	Inland Waters EQS	DWS	Inland Waters EQS	EQS compared to dissolved metals as an initial screen, with no adjustment for bioavailability or ABC.
71-43-2	Benzene	P	H	1	0	1	<1	<1	<1	<1	1	10	0	0	0	0	
108-88-3	Toluene	SP	H	1	0	1	<1	<1	<1	<1	700	74	0	0	0	0	
100-41-4	Ethylbenzene		H	1	0	1	<1	<1	<1	<1	300	20	0	0	0	0	Proposed EQS for Ethylbenzene in Water, R&D Technical Report P2-115/TR4. EA 2001
95-47-6	o-Xylene		H	1	0	1	<1	<1	<1	<1	500	30	0	0	0	0	DWS/EQS for total xylene
P1374	m,p-Xylene		H	1	0	1	<1	<1	<1	<1	500	30	0	0	0	0	DWS/EQS for total xylene
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	1	0	1	<1	<1	<1	<1	15	n/a	0		0		Non health based value - WHO odour threshold
71-55-6	1,1,1-Trichloroethane		NP	1	0	1	<1	<1	<1	<1	n/a	100		0		0	
79-00-5	1,1,2-Trichloroethane		NP	1	0	1	<1	<1	<1	<1	n/a	400		0		0	
96-12-8	1,2-Dibromo-3-chloropropane			1	0	1	<1	<1	<1	<1	0.1	n/a	1		0		
106-93-4	1,2-Dibromoethane		H	1	0	1	<1	<1	<1	<1	0.4	n/a	1		0		
95-50-1	1,2-Dichlorobenzene		H	1	0	1	<1	<1	<1	<1	1000	20	0	0	0	0	
107-06-2	1,2-Dichloroethane (EDC)	P	NP	1	0	1	<1	<1	<1	<1	3	10	0	0	0	0	
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	1	0	1	<1	<1	<1	<1	50	n/a	0		0		DWS is for combined isomers
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	1	0	1	<1	<1	<1	<1	50	n/a	0		0		DWS is for combined isomers
78-87-5	1,2-Dichloropropane		H	1	0	1	<1	<1	<1	<1	40	n/a	0		0		
10061-01-5	cis 1,3-Dichloropropene		H	1	0	1	<1	<1	<1	<1	0.1	n/a	1		0		DWS is for combined isomers
10061-02-6	trans 1,3-Dichloropropene		H	1	0	1	<1	<1	<1	<1	0.1	n/a	1		0		DWS is for combined isomers
106-46-7	1,4-Dichlorobenzene		H	1	0	1	<1	<1	<1	<1	300	20	0	0	0	0	
75-27-4	Bromodichloromethane			1	0	1	<1	<1	<1	<1	60	n/a	0		0		
75-01-4	Chloroethene (vinyl chloride)		H	1	0	1	<1	<1	<1	<1	0.5	n/a	1		0		
124-48-1	Dibromochloromethane			1	0	1	<1	<1	<1	<1	100	n/a	0		0		
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)			1	0	1	<1	<1	<1	<1	n/a	20		0		0	
75-09-2	Dichloromethane	P	NP	1	0	1	<1	<1	<1	<1	20	20	0	0	0	0	
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	1	0	1	<1	<1	<1	<1	0.1	0.6	1	1	0	0	
100-42-5	Styrene		H	1	0	1	<1	<1	<1	<1	20	50	0	0	0	0	
25322-20-7	Tetrachloroethane (PCA)	SP		1	0	1	<1	<1	<1	<1	n/a	140		0		0	
127-18-4	Tetrachloroethene (PCE)	OP	NP	1	0	1	<1	<1	<1	<1	10	10	0	0	0	0	UK DWS applies to sum of tetrachloroethene and trichloroethene
GRP02	Tetrachloroethene (PCE) and trichloroethene (TCE)			1	0	1	<1	<1	<1	<1	10	n/a	0		0		UK DWS applies to sum of tetrachloroethene and trichloroethene
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	1	0	1	<1	<1	<1	<1	3	12	0	0	0	0	
75-25-2	Tribromomethane (bromoform)			1	0	1	<1	<1	<1	<1	100	n/a	0		0		
12002-48-1	Trichlorobenzenes	P	NP	1	0	1	<1	<1	<1	<1	n/a	0.4		1		0	
79-01-6	Trichloroethene	OP	H	1	0	1	<1	<1	<1	<1	10	10	0	0	0	0	UK DWS applies to sum of tetrachloroethene and trichloroethene
67-66-3	Trichloromethane (chloroform)	P	H	1	0	1	<1	<1	<1	<1	100	2.5	0	0	0	0	
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane			1	0	1	<1	<1	<1	<1	100	n/a	0		0		
88-06-2	2,4,6-Trichlorophenol		H	1	0	1	<1	<1	<1	<1	200	n/a	0		0		
120-83-2	2,4-Dichlorophenol	SP	H	1	0	1	<1	<1	<1	<1	n/a	4.2		0		0	
95-57-8	2-Chlorophenol		H	1	0	1	<1	<1	<1	<1	n/a	50		0		0	
554-00-7	3,4-Dichloroaniline	SP		1	0	1	<1	<1	<1	<1	n/a	0.2		1		0	
108-43-0	3-Chlorophenol		H	1	0	1	<1	<1	<1	<1	n/a	50		0		0	
59-50-7	4-Chloro, 3-methylphenol		H	1	0	1	<1	<1	<1	<1	n/a	40		0		0	
106-48-9	4-Chlorophenol		H	1	0	1	<1	<1	<1	<1	n/a	50		0		0	
85-68-7	Benzyl butyl phthalate	SP		1	0	1	<1	<1	<1	<1	n/a	7.5		0		0	
117-81-7	Di(2-ethylhexylphthalate) (DEHP)	PH	NP	1	0	1	<1	<1	<1	<1	8	1.3	0	0	0	0	
84-74-2	Dibutyl phthalate		NP	1	0	1	<1	<1	<1	<1	n/a	8		0		0	
84-66-2	Diethyl phthalate (DEP)			1	0	1	<1	<1	<1	<1	n/a	200		0		0	
131-11-3	Dimethyl phthalate (DMP)			1	0	1	<1	<1	<1	<1	n/a	800		0		0	
117-84-0	Dioctyl phthalates			1	0	1	<1	<1	<1	<1	n/a	20		0		0	
118-74-1	Hexachlorobenzene	PH	H	1	0	1	<1	<1	<1	<1	0.1	0.05	1	1	0	0	
104-40-5	Nonylphenol (4-Nonylphenol)	PH		1	0	1	<1	<1	<1	<1	n/a	0.3		1		0	
140-66-9	Octylphenol ((4-(1,1', 3,3'-tetramethylbutyl) -phenol))	P		1	0	1	<1	<1	<1	<1	n/a	0.1		1		0	
608-93-5	Pentachlorobenzene	PH	H	1	0	1	<1	<1	<1	<1	n/a	0.007		1		0	

Remedial Targets Methodology Data Table

Hydrock

Hydrock Scenario: Scenario D - DWS & EQS (inland)

RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Perched Made Ground
Client: Crowning Developments Limited
Site: Gould Street
Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

123* Exceeds solubility value
<1 Grey text and "<" sign if value <= LoD
999 Red text if value > DWS
Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 10

								Strata / Zone	MG															
								Date sampled:	12/01/2022															
CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	WS701															
7440-22-4	Silver (Ag) (dissolved)				1	0.05	n/a	0.05	<0.05															
7429-90-5	Aluminium (Al) (dissolved)				1	1	200	n/a	100															
7440-38-2	Arsenic (As) (dissolved)	SP	H		1	0.15	10	50	3.47															
7440-42-8	Boron (B) (dissolved)		NP		1	10	1000	2000	150															
7440-39-3	Barium (Ba) (dissolved)				1	0.06	1300	n/a	27															
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP		1	0.02	5	0.08	<0.02															
7440-48-4	Cobalt (Co) (dissolved)		NP		1	0.2	n/a	3	2.8															
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H		1	5	n/a	3.4	<5															
16065-83-1	Chromium (III) (Cr) (dissolved)	SP			1	0.2	n/a	4.7	2.2															
7440-47-3	Chromium (Cr) (total) (dissolved)				1	0.2	50	n/a	2.2															
7440-50-8	Copper (Cu) (dissolved)	SP	NP		1	0.5	2000	1	2.4															
7439-89-6	Iron (Fe) (dissolved)	SP			1	4	200	1000	18															
7439-97-6	Mercury (Hg) (dissolved)	PH	H		1	0.05	1	0.07	<0.05															
P1286	Manganese (Mn) (dissolved)	SP			1	0.05	50	123	870															
7440-23-5	Sodium (Na) (dissolved)				1	10	200000	n/a	180000															
7440-02-0	Nickel (Ni) (dissolved)	P	NP		1	0.5	20	4	5.6															
7439-92-1	Lead (Pb) (dissolved)	P	H		1	0.2	10	1.2	<0.2															
7440-36-0	Antimony (Sb) (dissolved)		NP		1	0.4	5	n/a	1.2															
7782-49-2	Selenium (Se) (dissolved)		NP		1	0.6	10	n/a	1.7															
7440-31-5	Tin (Sn) (dissolved)				1	0.2	n/a	25	<0.2															
7440-62-2	Vanadium (V) (dissolved)				1	0.2	n/a	20	2.6															
7440-66-6	Zinc (Zn) (dissolved)	SP	NP		1	0.5	n/a	12.3	6.1															
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP		1	1	n/a	1	<1															
57-12-5	Cyanide (total)				1	1	50	n/a	20															
P1140	Ammonium (NH_4^+)		NP		1	15	500	n/a	43															
P1238	Ammnoniacal Nitrogen (as N)		NP		1	15	n/a	300	33															
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP		1	15	n/a	n/a	41															
15541-45-4	Bromate (BrO_3^-)				1	2	10	n/a	<2															
16887-00-6	Chloride (Cl^-)				1	150	250000	250000	450000															
16984-48-8	Fluoride (F^-)				1	50	1500	1000	170															
P1348	Nitrate (NO_3^-)				1	50	50000	n/a	100															
P1349	Nitrite (NO_2^-)				1	5	500	n/a	10															
14808-79-8	Sulfate (SO_4^{2-})				1	45	250000	400000	533000															
P1134	pH (min.) (su)				1	0	6.5	6	7.5															
P1134	pH (max.) (su)				1	0	9.5	9	7.5															
P1287	Electrical conductivity (µS/cm)				1	10	2500	n/a	1600															
120-12-7	Anthracene	PH	H	56	1	0.01	n/a	0.1	0.44															
50-32-8	Benzo(a)pyrene	PH	H	3.8	1	0.01	0.01	0.00017	0.89															
206-44-0	Fluoranthene	P	H	230	1	0.01	n/a	0.0063	1.98															
91-20-3	Naphthalene	P	NP	19000	1	0.01	n/a	2	<0.01															
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	P	H		1	0.04	0.1	n/a	2.1															
P1877	Phenol	SP	NP	84100000	1	0.05	n/a	7.7	<0.05															
P1407	Ali EC5-EC6			35900	1	1	15000	10	<1															
P1408	Ali >EC6-EC8			5370	1	1	15000	10	<1															
P1409	Ali >EC8-EC10			427	1	1	300	10	<1															
P1410	Ali >EC10-EC12			33.9	1	10	300	10	<10															
P1411	Ali >EC12-EC16			0.759	1	10	300	10	**50 ***															
P1938	Ali >EC16-EC35			0.00254	1	10	n/a	10	**300 ***															
P1415	Ali >EC35-EC44			0.00254	1	10	n/a	10	<10															
P1441	Aro EC5-EC7			1780000	1	1	1	10	<1															
P1355	Aro >EC7-EC8			590000	1	1	700	10	<1															
P1356	Aro >EC8-EC10			64600	1	1	300	10	<1															
P1357	Aro >EC10-EC12			24500	1	10	90	10	<10															
P1358	Aro > EC12-EC16			5750	1	10	90	10	30															
P1359	Aro >EC16-EC21			653	1	10	90	10	40															
P1360	Aro >EC21-EC35			6.61	1	10	90	10	**70 ***															
P1362	Aro >EC35-EC44			6.61	1	10	n/a	10	<10															
71-43-2	Benzene	P	H	1780000	1	1	1	10	<1															
108-88-3	Toluene	SP	H	590000	1	1	700	74	<1															
100-41-4	Ethylbenzene		H	180000	1	1	300	20	<1															
95-47-6	o-Xylene		H	173000	1	1	500	30	<1															
P1374	m,p-Xylene		H	200000	1	1	500	30	<1															
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	48000000	1	1	15	n/a	<1															
71-55-6	1,1,1-Trichloroethane		NP	1300000	1	1	n/a	100	<1															
79-00-5	1,1,2-Trichloroethane		NP	4490000	1	1	n/a	400	<1															
96-12-8	1,2-Dibromo-3-chloropropane			1230000	1	1	0.1	n/a	<1															
106-93-4	1,2-Dibromoethane		H	4300000	1	1	0.4	n/a	<1															
95-50-1	1,2-Dichlorobenzene		H	133000	1	1	1000	20	<1															
107-06-2	1,2-Dichloroethane (EDC)	P	NP	8680000	1	1	3	10	<1															
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	7550000	1	1	50	n/a	<1															
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	5250000	1	1	50	n/a	<1															
78-87-5	1,2-Dichloropropane		H	2050000	1	1	40	n/a	<1															

Remedial Targets Methodology Data Table

Hydrock

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Surface Water Representative Hardness as mg/l $CaCO_3$ 10

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	WS701
								Strata / Zone	MG
								Date sampled:	12/01/2022
10061-01-5	cis 1,3-Dichloropropene		H	2700000	1	1	0.1	n/a	<1
10061-02-6	trans 1,3-Dichloropropene		H	2800000	1	1	0.1	n/a	<1
106-46-7	1,4-Dichlorobenzene		H	103000	1	1	300	20	<1
75-27-4	Bromodichloromethane			3000000	1	1	60	n/a	<1
75-01-4	Chloroethene (vinyl chloride)		H	2760000	1	1	0.5	n/a	<1
124-48-1	Dibromochloromethane			1050000	1	1	100	n/a	<1
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)				1	1	n/a	20	<1
75-09-2	Dichloromethane	P	NP	20100000	1	1	20	20	<1
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	4800	1	1	0.1	0.6	<1
100-42-5	Styrene		H	290000	1	1	20	50	<1
25322-20-7	Tetrachloroethane (PCA)	SP			1	1	n/a	140	<1
127-18-4	Tetrachloroethene (PCE)	OP	NP	225000	1	1	10	10	<1
GRP02	Tetrachloroethene (PCE) and trichloroethene (TCE)				1	1	10	n/a	<1
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	846000	1	1	3	12	<1
75-25-2	Tribromomethane (bromoform)			3000000	1	1	100	n/a	<1
12002-48-1	Trichlorobenzenes	P	NP		1	1	n/a	0.4	<1
79-01-6	Trichloroethene	OP	H	1370000	1	1	10	10	<1
67-66-3	Trichloromethane (chloroform)	P	H	8950000	1	1	100	2.5	<1
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane				1	1	100	n/a	<1
88-06-2	2,4,6-Trichlorophenol		H	434000	1	1	200	n/a	<1
120-83-2	2,4-Dichlorophenol	SP	H	4500000	1	1	n/a	4.2	<1
95-57-8	2-Chlorophenol		H	22700000	1	1	n/a	50	<1
554-00-7	3,4-Dichloroaniline	SP			1	1	n/a	0.2	<1
108-43-0	3-Chlorophenol		H		1	1	n/a	50	<1
59-50-7	4-Chloro, 3-methylphenol		H		1	1	n/a	40	<1
106-48-9	4-Chlorophenol		H		1	1	n/a	50	<1
85-68-7	Benzyl butyl phthalate	SP			1	1	n/a	7.5	<1
117-81-7	Di(2-ethylhexylphthalate) (DEHP)	PH	NP		1	1	8	1.3	<1
84-74-2	Dibutyl phthalate		NP		1	1	n/a	8	<1
84-66-2	Diethyl phthalate (DEP)				1	1	n/a	200	<1
131-11-3	Dimethyl phthalate (DMP)				1	1	n/a	800	<1
117-84-0	Dioctyl phthalates				1	1	n/a	20	<1
118-74-1	Hexachlorobenzene	PH	H	9.6	1	1	0.1	0.05	<1
104-40-5	Nonylphenol (4-Nonylphenol)	PH			1	1	n/a	0.3	<1
140-66-9	Octylphenol ((4-(1,1', 3,3'-tetramethylbutyl) -phenol))	P			1	1	n/a	0.1	<1
608-93-5	Pentachlorobenzene	PH	H	500	1	1	n/a	0.007	<1

Summary of Remedial Targets Methodology Screening

Hydrock

Hydrock Scenario: Scenario D - DWS & EQS (inland)
RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples
Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Glacial Till
Client: Crowning Developments Limited
Site: Gould Street

Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

2013/39/EU Annex I
P = priority substance
PH = priority hazardous substances.
WFD Designation (2015 Directions)
OP = Other substance identical to previous legislation
SP = Specific Pollutant
JAGDAG Hazardous Substances Determination (UK)
H Hazardous substance
NP Non-hazardous pollutant
(blank) Not included in assessment

CAS / AGS Number	Chemicals of Potential Concern (concentrations in µg/l)	WFD Designation	Hazardous Substance Status	Summary of Sample Data						Value Being Compared to Target = Maximum Value	Water Quality Target (Exceeded if Red		No. Samples Exceeding Water Quality Target		No. Samples above LoD Exceeding Water		Notes
				No. of Samples	No. of Samples > LoD	Limit of Detection	Minimum Value	Maximum Value	95-%ile Value		DWS	Inland Waters EQS	DWS	Inland Waters EQS	DWS	Inland Waters EQS	EQS compared to dissolved metals as an initial screen, with no adjustment for bioavailability or ABC.
7440-22-4	Silver (Ag) (dissolved)			7	0	0.05	<0.05	<0.05	<0.05	<0.05	n/a	0.05		0		0	
7429-90-5	Aluminium (Al) (dissolved)			7	7	1	1.5	21	20.1	21	200	n/a	0		0		
7440-38-2	Arsenic (As) (dissolved)	SP	H	7	7	0.15	0.59	2.87	2.624	2.87	10	50	0	0	0	0	
7440-42-8	Boron (B) (dissolved)		NP	7	7	10	16	250	241	250	1000	2000	0	0	0	0	
7440-39-3	Barium (Ba) (dissolved)			7	7	0.06	26	310	259	310	1300	n/a	0		0		
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP	7	5	0.02	<0.02	1.4	1.034	1.4	5	0.08	0	4	0	4	EQS (inland) dependent on hardness of receiving surface water environment
7440-48-4	Cobalt (Co) (dissolved)		NP	7	7	0.2	0.3	5	3.86	5	n/a	3		1		1	
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H	7	0	5	<5	<5	<5	<5	n/a	3.4		7		0	
16065-83-1	Chromium (III) (Cr) (dissolved)	SP		7	6	0.2	<0.2	8.6	6.95	8.6	n/a	4.7		1		1	
7440-47-3	Chromium (Cr) (total) (dissolved)			7	6	0.2	<0.2	8.6	6.95	8.6	50	n/a	0		0		
7440-50-8	Copper (Cu) (dissolved)	SP	NP	7	7	0.5	0.8	4	3.85	4	2000	1	0	4	0	4	Bioavailable EQS (inland)
7439-89-6	Iron (Fe) (dissolved)	SP		7	7	4	11	160	142	160	200	1000	0	0	0	0	
7439-97-6	Mercury (Hg) (dissolved)	PH	H	7	1	0.05	<0.05	0.16	0.127	0.16	1	0.07	0	1	0	1	
P1286	Manganese (Mn) (dissolved)	SP		7	7	0.05	31	1200	987	1200	50	123	5	4	5	4	Bioavailable EQS (inland)
7440-23-5	Sodium (Na) (dissolved)			7	7	10	20000	170000	164000	170000	200000	n/a	0		0		
7440-02-0	Nickel (Ni) (dissolved)	*P*	NP	7	7	0.5	1.2	11	8.63	11	20	4	0	1	0	1	Bioavailable EQS (inland)
7439-92-1	Lead (Pb) (dissolved)	*P*	H	7	2	0.2	<0.2	0.4	0.37	0.4	10	1.2	0	0	0	0	Bioavailable EQS (inland)
7440-36-0	Antimony (Sb) (dissolved)		NP	7	7	0.4	0.5	2.8	2.35	2.8	5	n/a	0		0		
7782-49-2	Selenium (Se) (dissolved)		NP	7	5	0.6	<0.6	4.6	4.42	4.6	10	n/a	0		0		
7440-31-5	Tin (Sn) (dissolved)			7	0	0.2	<0.2	<0.2	<0.2	<0.2	n/a	25		0		0	
7440-62-2	Vanadium (V) (dissolved)			7	7	0.2	0.4	7.8	6.06	7.8	n/a	20		0		0	EQS (inland) dependent on hardness of receiving surface water environment
7440-66-6	Zinc (Zn) (dissolved)	SP	NP	7	7	0.5	1.1	5.6	5.33	5.6	n/a	12.3		0		0	Bioavailable EQS (inland) + ambient background concentration (ABC)
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP	7	1	1	<1	1.4	1.28	1.4	n/a	1		1		1	
57-12-5	Cyanide (total)			7	6	1	<1	120	102.9	120	50	n/a	2		2		
P1140	Ammonium (NH_4^+)		NP	7	7	15	49	250	241	250	500	n/a	0		0		
P1238	Ammnoniacal Nitrogen (as N)		NP	7	7	15	38	190	184	190	n/a	300		0		0	
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP	7	7	15	47	240	234	240	n/a	n/a					
15541-45-4	Bromate (BrO_3)			7	0	2	<2	<2	<2	<2	10	n/a	0		0		
16887-00-6	Chloride (Cl^-)			7	7	150	23000	110000	101300	110000	250000	250000	0	0	0	0	
16984-48-8	Fluoride (F^-)			7	7	50	68	490	454	490	1500	1000	0	0	0	0	EQS (inland) dependent on hardness of receiving surface water environment
P1348	Nitrate (NO_3^-)			7	7	50	160	18300	16260	18300	50000	n/a	0		0		
P1349	Nitrite (NO_2^-)			7	3	5	<5	51	42	51	500	n/a	0		0		
14808-79-8	Sulfate (SO_4^{2-})			7	7	45	18200	322000	316900	322000	250000	400000	2	0	2	0	
P1134	pH (min.) (su)			7	7	0	7.3	8.8	8.62	8.8	6.5	6	0	0	0	0	
P1134	pH (max.) (su)			7	7	0	7.3	8.8	8.62	8.8	9.5	9	0	0	0	0	
P1287	Electrical conductivity (µS/cm)			7	7	10	300	1200	1071	1200	2500	n/a	0		0		
120-12-7	Anthracene	*PH*	H	7	1	0.01	<0.01	1.36	0.955	1.36	n/a	0.1		1		1	
50-32-8	Benzo(a)pyrene	*PH*	H	7	2	0.01	<0.01	7.59	5.433	7.59	0.01	0.00017	2	7	2	2	Benzo(a)pyrene EQS used as marker substance for the group of benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene & indeno (1,2,3-cd)pyrene
206-44-0	Fluoranthene	*P*	H	7	3	0.01	<0.01	11	7.946	11	n/a	0.0063		7		3	
91-20-3	Naphthalene	P	NP	7	1	0.01	<0.01	2.45	1.718	2.45	n/a	2		1		1	
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	*P*	H	7	2	0.04	<0.04	18	12.858	18	0.1	n/a	2		2		
P1877	Phenol	SP	NP	7	1	0.05	<0.05	7.6	5.335	7.6	n/a	7.7		0		0	
P1407	Ali EC5-EC6			7	0	1	<1	<1	<1	<1	15000	10	0	0	0	0	n-hexane fall within this fraction
P1408	Ali >EC6-EC8			7	0	1	<1	<1	<1	<1	15000	10	0	0	0	0	n-heptane falls within this fraction
P1409	Ali >EC8-EC10			7	0	1	<1	<1	<1	<1	300	10	0	0	0	0	n-octane and n-nonane fall within this fraction
P1410	Ali >EC10-EC12			7	1	10	<10	190	136	190	300	10	0	1	0	1	
P1411	Ali >EC12-EC16			7	2	10	<10	370	298	370	300	10	1	2	1	2	
P1938	Ali >EC16-EC35			7	3	10	<10	7700	5960	7700	n/a	10		3		3	
P1415	Ali >EC35-EC44			7	0	10	<10	<10	<10	<10	n/a	10		0		0	
P1441	Aro EC5-EC7			7	0	1	<1	<1	<1	<1	1	10	0	0	0	0	Benzene wholly representative of this fraction
P1355	Aro >EC7-EC8			7	0	1	<1	<1	<1	<1	700	10	0	0	0	0	Toluene wholly representative of this fraction
P1356	Aro >EC8-EC10			7	0	1	<1	<1	<1	<1	300	10	0	0	0	0	Ethylbenzene / xylene / trimethylbenzene representative of this range
P1357	Aro >EC10-EC12			7	1	10	<10	40	31	40	90	10	0	1	0	1	Naphthalene often forms a reasonable percentage of this fraction
P1358	Aro > EC12-EC16			7	1	10	<10	170	122	170	90	10	1	1	1	1	2-methylnaphthalene, acenpthylene, acenapthene falls within this fraction
P1359	Aro >EC16-EC21			7	1	10	<10	200	143	200	90	10	1	1	1	1	fluorene, anthracene, phenanthrene, pyrene falls within this range
P1360	Aro >EC21-EC35			7	1	10	<10	700	493	700	90	10	1	1	1	1	Benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(cd)pyrene fall within this fraction
P1362	Aro >EC35-EC44			7	0	10	<10	<10	<10	<10	n/a	10		0		0	

Summary of Remedial Targets Methodology Screening

Hydrock

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Data set: Groundwater Glacial Till
Client: Crowning Developments Limited
Site: Gould Street

Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

P = priority substance
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OP = Other substance identical to previous legislation
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JAGDAG Hazardous Substances Determination (UK)
H Hazardous substance
NP Non-hazardous pollutant
(blank) Not included in assessment

CAS / AGS Number	Chemicals of Potential Concern (concentrations in µg/l)	WFD Designation	Hazardous Substance Status	Summary of Sample Data						Value Being Compared to Target = Maximum Value	Water Quality Target (Exceeded if Red)		No. Samples Exceeding Water Quality Target		No. Samples above LoD Exceeding Water		Notes
				No. of Samples	No. of Samples > LoD	Limit of Detection	Minimum Value	Maximum Value	95-%ile Value		DWS	Inland Waters EQS	DWS	Inland Waters EQS	DWS	Inland Waters EQS	EQS compared to dissolved metals as an initial screen, with no adjustment for bioavailability or ABC.
71-43-2	Benzene	P	H	7	0	1	<1	<1	<1	<1	1	10	0	0	0	0	
108-88-3	Toluene	SP	H	7	0	1	<1	<1	<1	<1	700	74	0	0	0	0	
100-41-4	Ethylbenzene		H	7	0	1	<1	<1	<1	<1	300	20	0	0	0	0	Proposed EQS for Ethylbenzene in Water, R&D Technical Report P2-115/TR4. EA 2001
95-47-6	o-Xylene		H	7	0	1	<1	<1	<1	<1	500	30	0	0	0	0	DWS/EQS for total xylene
P1374	m,p-Xylene		H	7	0	1	<1	<1	<1	<1	500	30	0	0	0	0	DWS/EQS for total xylene
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	7	0	1	<1	<1	<1	<1	15	n/a	0		0		Non health based value - WHO odour threshold
71-55-6	1,1,1-Trichloroethane		NP	7	0	1	<1	<1	<1	<1	n/a	100		0		0	
79-00-5	1,1,2-Trichloroethane		NP	7	0	1	<1	<1	<1	<1	n/a	400		0		0	
96-12-8	1,2-Dibromo-3-chloropropane			7	0	1	<1	<1	<1	<1	0.1	n/a	7		0		
106-93-4	1,2-Dibromoethane		H	7	0	1	<1	<1	<1	<1	0.4	n/a	7		0		
95-50-1	1,2-Dichlorobenzene		H	7	0	1	<1	<1	<1	<1	1000	20	0	0	0	0	
107-06-2	1,2-Dichloroethane (EDC)	P	NP	7	0	1	<1	<1	<1	<1	3	10	0	0	0	0	
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	7	0	1	<1	<1	<1	<1	50	n/a	0		0		DWS is for combined isomers
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	7	0	1	<1	<1	<1	<1	50	n/a	0		0		DWS is for combined isomers
78-87-5	1,2-Dichloropropane		H	7	0	1	<1	<1	<1	<1	40	n/a	0		0		
10061-01-5	cis 1,3-Dichloropropene		H	7	0	1	<1	<1	<1	<1	0.1	n/a	7		0		DWS is for combined isomers
10061-02-6	trans 1,3-Dichloropropene		H	7	0	1	<1	<1	<1	<1	0.1	n/a	7		0		DWS is for combined isomers
106-46-7	1,4-Dichlorobenzene		H	7	0	1	<1	<1	<1	<1	300	20	0	0	0	0	
75-27-4	Bromodichloromethane			7	0	1	<1	<1	<1	<1	60	n/a	0		0		
75-01-4	Chloroethene (vinyl chloride)		H	7	0	1	<1	<1	<1	<1	0.5	n/a	7		0		
124-48-1	Dibromochloromethane			7	0	1	<1	<1	<1	<1	100	n/a	0		0		
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)			7	0	1	<1	<1	<1	<1	n/a	20		0		0	
75-09-2	Dichloromethane	P	NP	7	0	1	<1	<1	<1	<1	20	20	0	0	0	0	
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	7	0	1	<1	<1	<1	<1	0.1	0.6	7	7	0	0	
100-42-5	Styrene		H	7	0	1	<1	<1	<1	<1	20	50	0	0	0	0	
25322-20-7	Tetrachloroethane (PCA)	SP		7	0	1	<1	<1	<1	<1	n/a	140		0		0	
127-18-4	Tetrachloroethene (PCE)	OP	NP	7	0	1	<1	<1	<1	<1	10	10	0	0	0	0	UK DWS applies to sum of tetrachloroethene and trichloroethene
GRP02	Tetrachloroethene (PCE) and trichloroethene (TCE)			7	0	1	<1	<1	<1	<1	10	n/a	0		0		UK DWS applies to sum of tetrachloroethene and trichloroethene
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	7	0	1	<1	<1	<1	<1	3	12	0	0	0	0	
75-25-2	Tribromomethane (bromoform)			7	0	1	<1	<1	<1	<1	100	n/a	0		0		
12002-48-1	Trichlorobenzenes	P	NP	7	0	1	<1	<1	<1	<1	n/a	0.4		7		0	
79-01-6	Trichloroethene	OP	H	7	0	1	<1	<1	<1	<1	10	10	0	0	0	0	UK DWS applies to sum of tetrachloroethene and trichloroethene
67-66-3	Trichloromethane (chloroform)	P	H	7	0	1	<1	<1	<1	<1	100	2.5	0	0	0	0	
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane			7	0	1	<1	<1	<1	<1	100	n/a	0		0		
88-06-2	2,4,6-Trichlorophenol		H	7	0	1	<1	<1	<1	<1	200	n/a	0		0		
120-83-2	2,4-Dichlorophenol	SP	H	7	0	1	<1	<1	<1	<1	n/a	4.2		0		0	
95-57-8	2-Chlorophenol		H	7	0	1	<1	<1	<1	<1	n/a	50		0		0	
554-00-7	3,4-Dichloroaniline	SP		7	0	1	<1	<1	<1	<1	n/a	0.2		7		0	
108-43-0	3-Chlorophenol		H	7	0	1	<1	<1	<1	<1	n/a	50		0		0	
59-50-7	4-Chloro, 3-methylphenol		H	7	0	1	<1	<1	<1	<1	n/a	40		0		0	
106-48-9	4-Chlorophenol		H	7	0	1	<1	<1	<1	<1	n/a	50		0		0	
85-68-7	Benzyl butyl phthalate	SP		7	0	1	<1	<1	<1	<1	n/a	7.5		0		0	
117-81-7	Di(2-ethylhexylphthalate) (DEHP)	PH	NP	7	0	1	<1	<1	<1	<1	8	1.3	0	0	0	0	
84-74-2	Dibutyl phthalate		NP	7	0	1	<1	<1	<1	<1	n/a	8		0		0	
84-66-2	Diethyl phthalate (DEP)			7	0	1	<1	<1	<1	<1	n/a	200		0		0	
131-11-3	Dimethyl phthalate (DMP)			7	0	1	<1	<1	<1	<1	n/a	800		0		0	
117-84-0	Dioctyl phthalates			7	0	1	<1	<1	<1	<1	n/a	20		0		0	
118-74-1	Hexachlorobenzene	PH	H	7	0	1	<1	<1	<1	<1	0.1	0.05	7	7	0	0	
104-40-5	Nonylphenol (4-Nonylphenol)	PH		7	0	1	<1	<1	<1	<1	n/a	0.3		7		0	
140-66-9	Octylphenol ((4-(1,1', 3,3'-tetramethylbutyl) -phenol))	P		7	0	1	<1	<1	<1	<1	n/a	0.1		7		0	
608-93-5	Pentachlorobenzene	PH	H	7	0	1	<1	<1	<1	<1	n/a	0.007		7		0	

Remedial Targets Methodology Data Table

Hydrock

Hydrock Scenario: Scenario D - DWS & EQS (inland)

RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Glacial Till
Client: Crowning Developments Limited
Site: Gould Street
Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

123* Exceeds solubility value
<1 Grey text and "<" sign if value <= LoD
999 Red text if value > DWS
Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 10

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	MPBH701	MPBH703	MPBH705	MPBH707	MPBH714D	MPBH709	BH305 (P3)
Strata / Zone									GT	GT	GT	GT	GT	GT	GT
Date sampled:									11/01/2022	11/01/2022	12/01/2022	11/01/2022	11/01/2022	11/01/2022	18/01/2022
7440-22-4	Silver (Ag) (dissolved)				7	0.05	n/a	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
7429-90-5	Aluminium (Al) (dissolved)				7	1	200	n/a	6.2	3.4	1.5	13	21	18	11
7440-38-2	Arsenic (As) (dissolved)	SP	H		7	0.15	10	50	1.46	1.09	1.54	2.05	1.36	2.87	0.59
7440-42-8	Boron (B) (dissolved)		NP		7	10	1000	2000	130	220	250	120	210	120	16
7440-39-3	Barium (Ba) (dissolved)				7	0.06	1300	n/a	310	120	49	140	130	34	26
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP		7	0.02	5	0.08	0.1	0.04	1.4	0.1	0.18	<0.02	<0.02
7440-48-4	Cobalt (Co) (dissolved)		NP		7	0.2	n/a	3	1.2	0.9	5	0.4	0.6	0.3	0.3
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H		7	5	n/a	3.4	<5	<5	<5	<5	<5	<5	<5
16065-83-1	Chromium (III) (Cr) (dissolved)	SP			7	0.2	n/a	4.7	1.9	2.2	2.8	<0.2	0.7	3.1	8.6
7440-47-3	Chromium (Cr) (total) (dissolved)				7	0.2	50	n/a	1.9	2.2	2.8	<0.2	0.7	3.1	8.6
7440-50-8	Copper (Cu) (dissolved)	SP	NP		7	0.5	2000	1	1	3.5	4	0.9	0.8	2.6	2.4
7439-89-6	Iron (Fe) (dissolved)	SP			7	4	200	1000	90	100	41	160	58	11	31
7439-97-6	Mercury (Hg) (dissolved)	PH	H		7	0.05	1	0.07	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05
P1286	Manganese (Mn) (dissolved)	SP			7	0.05	50	123	490	150	1200	45	470	31	87
7440-23-5	Sodium (Na) (dissolved)				7	10	200000	n/a	95000	72000	170000	88000	150000	63000	20000
7440-02-0	Nickel (Ni) (dissolved)	P	NP		7	0.5	20	4	3.1	3.1	11	2	2.4	2.5	1.2
7439-92-1	Lead (Pb) (dissolved)	P	H		7	0.2	10	1.2	0.4	<0.2	<0.2	<0.2	<0.2	<0.2	0.3
7440-36-0	Antimony (Sb) (dissolved)		NP		7	0.4	5	n/a	0.5	1.3	0.8	1.2	0.7	0.8	2.8
7782-49-2	Selenium (Se) (dissolved)		NP		7	0.6	10	n/a	1	4.6	3	2	<0.6	4	<0.6
7440-31-5	Tin (Sn) (dissolved)				7	0.2	n/a	25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
7440-62-2	Vanadium (V) (dissolved)				7	0.2	n/a	20	0.4	0.7	0.9	2	0.4	7.8	1.1
7440-66-6	Zinc (Zn) (dissolved)	SP	NP		7	0.5	n/a	12.3	1.5	3	4.7	2.1	1.1	2.9	5.6
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP		7	1	n/a	1	<1	<1	<1	<1	<1	<1	1.4
57-12-5	Cyanide (total)				7	1	50	n/a	120	19	63	2	<1	21	27
P1140	Ammonium (NH_4^+)		NP		7	15	500	n/a	82	190	250	67	49	180	220
P1238	Ammnoniacal Nitrogen (as N)		NP		7	15	n/a	300	64	150	190	52	38	140	170
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP		7	15	n/a	n/a	78	180	240	63	47	170	220
15541-45-4	Bromate (BrO_3)				7	2	10	n/a	<2	<2	<2	<2	<2	<2	<2
16887-00-6	Chloride (Cl^-)				7	150	250000	250000	23000	27000	110000	81000	43000	36000	30000
16984-48-8	Fluoride (F^-)				7	50	1500	1000	87	180	180	370	490	270	68
P1348	Nitrate (NO_3^-)				7	50	50000	n/a	18300	11500	1310	260	160	11000	1570
P1349	Nitrite (NO_2^-)				7	5	500	n/a	<5	51	15	<5	<5	<5	21
14808-79-8	Sulfate (SO_4^{2-})				7	45	250000	400000	98200	156000	305000	322000	197000	129000	18200
P1134	pH (min.) (su)				7	0	6.5	6	7.6	7.5	7.3	8.8	8.2	7.9	7.6
P1134	pH (max.) (su)				7	0	9.5	9	7.6	7.5	7.3	8.8	8.2	7.9	7.6
P1287	Electrical conductivity (µS/cm)				7	10	2500	n/a	650	750	1200	770	750	470	300
120-12-7	Anthracene	PH	H	56	7	0.01	n/a	0.1	1.36	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
50-32-8	Benzo(a)pyrene	PH	H	3.8	7	0.01	0.01	0.00017	7.59 *	<0.01	<0.01	<0.01	<0.01	<0.01	0.4
206-44-0	Fluoranthene	P	H	230	7	0.01	n/a	0.0063	11	<0.01	<0.01	<0.01	0.82	<0.01	0.79
91-20-3	Naphthalene	P	NP	19000	7	0.01	n/a	2	2.45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	P	H		7	0.04	0.1	n/a	18	<0.04	<0.04	<0.04	<0.04	<0.04	0.86
P1877	Phenol	SP	NP	84100000	7	0.05	n/a	7.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	7.6
P1407	Ali EC5-EC6			35900	7	1	15000	10	<1	<1	<1	<1	<1	<1	<1
P1408	Ali >EC6-EC8			5370	7	1	15000	10	<1	<1	<1	<1	<1	<1	<1
P1409	Ali >EC8-EC10			427	7	1	300	10	<1	<1	<1	<1	<1	<1	<1
P1410	Ali >EC10-EC12			33.9	7	10	300	10	190 *	<10	<10	<10	<10	<10	<10
P1411	Ali >EC12-EC16			0.759	7	10	300	10	370 *	<10	<10	<10	130 *	<10	<10
P1938	Ali >EC16-EC35			0.00254	7	10	n/a	10	1900 *	<10	<10	<10	7700 *	<10	320 *
P1415	Ali >EC35-EC44			0.00254	7	10	n/a	10	<10	<10	<10	<10	<10	<10	<10
P1441	Aro EC5-EC7			1780000	7	1	1	10	<1	<1	<1	<1	<1	<1	<1
P1355	Aro >EC7-EC8			590000	7	1	700	10	<1	<1	<1	<1	<1	<1	<1
P1356	Aro >EC8-EC10			64600	7	1	300	10	<1	<1	<1	<1	<1	<1	<1
P1357	Aro >EC10-EC12			24500	7	10	90	10	40	<10	<10	<10	<10	<10	<10
P1358	Aro > EC12-EC16			5750	7	10	90	10	170	<10	<10	<10	<10	<10	<10
P1359	Aro >EC16-EC21			653	7	10	90	10	200	<10	<10	<10	<10	<10	<10
P1360	Aro >EC21-EC35			6.61	7	10	90	10	700 *	<10	<10	<10	<10	<10	<10
P1362	Aro >EC35-EC44			6.61	7	10	n/a	10	<10	<10	<10	<10	<10	<10	<10
71-43-2	Benzene	P	H	1780000	7	1	1	10	<1	<1	<1	<1	<1	<1	<1
108-88-3	Toluene	SP	H	590000	7	1	700	74	<1	<1	<1	<1	<1	<1	<1
100-41-4	Ethylbenzene		H	180000	7	1	300	20	<1	<1	<1	<1	<1	<1	<1
95-47-6	o-Xylene		H	173000	7	1	500	30	<1	<1	<1	<1	<1	<1	<1
P1374	m,p-Xylene		H	200000	7	1	500	30	<1	<1	<1	<1	<1	<1	<1
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	48000000	7	1	15	n/a	<1	<1	<1	<1	<1	<1	<1

Remedial Targets Methodology Data Table

Hydrock

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Glacial Till
Client: Crowning Developments Limited
Site: Gould Street
Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

123* Exceeds solubility value
<1 Grey text and "<" sign if value <= LoD
999 Red text if value > DWS
Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 10

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	MPBH701	MPBH703	MPBH705	MPBH707	MPBH714D	MPBH709	BH305 (P3)	
	Strata / Zone								GT	GT	GT	GT	GT	GT	GT	
	Date sampled:								11/01/2022	11/01/2022	12/01/2022	11/01/2022	11/01/2022	11/01/2022	18/01/2022	
71-55-6	1,1,1-Trichloroethane		NP	1300000	7	1	n/a	100	<1	<1	<1	<1	<1	<1	<1	
79-00-5	1,1,2-Trichloroethane		NP	4490000	7	1	n/a	400	<1	<1	<1	<1	<1	<1	<1	
96-12-8	1,2-Dibromo-3-chloropropane			1230000	7	1	0.1	n/a	<1	<1	<1	<1	<1	<1	<1	
106-93-4	1,2-Dibromoethane		H	4300000	7	1	0.4	n/a	<1	<1	<1	<1	<1	<1	<1	
95-50-1	1,2-Dichlorobenzene		H	133000	7	1	1000	20	<1	<1	<1	<1	<1	<1	<1	
107-06-2	1,2-Dichloroethane (EDC)	P	NP	8680000	7	1	3	10	<1	<1	<1	<1	<1	<1	<1	
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	7550000	7	1	50	n/a	<1	<1	<1	<1	<1	<1	<1	
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	5250000	7	1	50	n/a	<1	<1	<1	<1	<1	<1	<1	
78-87-5	1,2-Dichloropropane		H	2050000	7	1	40	n/a	<1	<1	<1	<1	<1	<1	<1	
10061-01-5	cis 1,3-Dichloropropene		H	2700000	7	1	0.1	n/a	<1	<1	<1	<1	<1	<1	<1	
10061-02-6	trans 1,3-Dichloropropene		H	2800000	7	1	0.1	n/a	<1	<1	<1	<1	<1	<1	<1	
106-46-7	1,4-Dichlorobenzene		H	103000	7	1	300	20	<1	<1	<1	<1	<1	<1	<1	
75-27-4	Bromodichloromethane			3000000	7	1	60	n/a	<1	<1	<1	<1	<1	<1	<1	
75-01-4	Chloroethene (vinyl chloride)		H	2760000	7	1	0.5	n/a	<1	<1	<1	<1	<1	<1	<1	
124-48-1	Dibromochloromethane			1050000	7	1	100	n/a	<1	<1	<1	<1	<1	<1	<1	
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)				7	1	n/a	20	<1	<1	<1	<1	<1	<1	<1	
75-09-2	Dichloromethane	P	NP	20100000	7	1	20	20	<1	<1	<1	<1	<1	<1	<1	
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	4800	7	1	0.1	0.6	<1	<1	<1	<1	<1	<1	<1	
100-42-5	Styrene		H	290000	7	1	20	50	<1	<1	<1	<1	<1	<1	<1	
25322-20-7	Tetrachloroethane (PCA)	SP			7	1	n/a	140	<1	<1	<1	<1	<1	<1	<1	
127-18-4	Tetrachloroethene (PCE)	OP	NP	225000	7	1	10	10	<1	<1	<1	<1	<1	<1	<1	
GRP02	Tetrachloroethene (PCE) and trichloroethene (TCE)				7	1	10	n/a	<1	<1	<1	<1	<1	<1	<1	
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	846000	7	1	3	12	<1	<1	<1	<1	<1	<1	<1	
75-25-2	Tribromomethane (bromoform)			3000000	7	1	100	n/a	<1	<1	<1	<1	<1	<1	<1	
12002-48-1	Trichlorobenzenes	P	NP		7	1	n/a	0.4	<1	<1	<1	<1	<1	<1	<1	
79-01-6	Trichloroethene	OP	H	1370000	7	1	10	10	<1	<1	<1	<1	<1	<1	<1	
67-66-3	Trichloromethane (chloroform)	P	H	8950000	7	1	100	2.5	<1	<1	<1	<1	<1	<1	<1	
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane				7	1	100	n/a	<1	<1	<1	<1	<1	<1	<1	
88-06-2	2,4,6-Trichlorophenol		H	434000	7	1	200	n/a	<1	<1	<1	<1	<1	<1	<1	
120-83-2	2,4-Dichlorophenol	SP	H	4500000	7	1	n/a	4.2	<1	<1	<1	<1	<1	<1	<1	
95-57-8	2-Chlorophenol		H	22700000	7	1	n/a	50	<1	<1	<1	<1	<1	<1	<1	
554-00-7	3,4-Dichloroaniline	SP			7	1	n/a	0.2	<1	<1	<1	<1	<1	<1	<1	
108-43-0	3-Chlorophenol		H		7	1	n/a	50	<1	<1	<1	<1	<1	<1	<1	
59-50-7	4-Chloro, 3-methylphenol		H		7	1	n/a	40	<1	<1	<1	<1	<1	<1	<1	
106-48-9	4-Chlorophenol		H		7	1	n/a	50	<1	<1	<1	<1	<1	<1	<1	
85-68-7	Benzyl butyl phthalate	SP			7	1	n/a	7.5	<1	<1	<1	<1	<1	<1	<1	
117-81-7	Di(2-ethylhexylphthalate) (DEHP)	PH	NP		7	1	8	1.3	<1	<1	<1	<1	<1	<1	<1	
84-74-2	Dibutyl phthalate		NP		7	1	n/a	8	<1	<1	<1	<1	<1	<1	<1	
84-66-2	Diethyl phthalate (DEP)				7	1	n/a	200	<1	<1	<1	<1	<1	<1	<1	
131-11-3	Dimethyl phthalate (DMP)				7	1	n/a	800	<1	<1	<1	<1	<1	<1	<1	
117-84-0	Dioctyl phthalates				7	1	n/a	20	<1	<1	<1	<1	<1	<1	<1	
118-74-1	Hexachlorobenzene	PH	H	9.6	7	1	0.1	0.05	<1	<1	<1	<1	<1	<1	<1	
104-40-5	Nonylphenol (4-Nonylphenol)	PH			7	1	n/a	0.3	<1	<1	<1	<1	<1	<1	<1	
140-66-9	Octylphenol ((4-(1,1', 3,3'-tetramethylbutyl) -phenol))	P			7	1	n/a	0.1	<1	<1	<1	<1	<1	<1	<1	
608-93-5	Pentachlorobenzene	PH	H	500	7	1	n/a	0.007	<1	<1	<1	<1	<1	<1	<1	

Summary of Remedial Targets Methodology Screening

Hydrock

Hydrock Scenario: Scenario D - DWS & EQS (inland)
RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples
Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Sandstone
Client: Crowning Developments Limited
Site: Gould Street

Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

	PNEC calculated (inland EQS)

2013/39/EU Annex I
P = priority substance
PH = priority hazardous substances.
WFD Designation (2015 Directions)
OP = Other substance identical to previous legislation
SP = Specific Pollutant

JAGDAG Hazardous Substances Determination (UK)
H Hazardous substance
NP Non-hazardous pollutant
(blank) Not included in assessment

CAS / AGS Number	Chemicals of Potential Concern (concentrations in µg/l)	WFD Designation	Hazardous Substance Status	Summary of Sample Data						Value Being Compared to Target = Maximum Value	Water Quality Target (Exceeded if Red		No. Samples Exceeding Water Quality Target		No. Samples above LoD Exceeding Water		Notes
				No. of Samples	No. of Samples > LoD	Limit of Detection	Minimum Value	Maximum Value	95-%ile Value		DWS	Inland Waters EQS	DWS	Inland Waters EQS	DWS	Inland Waters EQS	EQS compared to dissolved metals as an initial screen, with no adjustment for bioavailability or ABC.
7440-22-4	Silver (Ag) (dissolved)			12	1	0.05	<0.05	20.5	9.2525	20.5	n/a	0.05		1		1	
7429-90-5	Aluminium (Al) (dissolved)			12	12	1	1.3	190	95.4	190	200	n/a	0		0		
7440-38-2	Arsenic (As) (dissolved)	SP	H	12	12	0.15	0.58	3.02	2.9375	3.02	10	50	0	0	0	0	
7440-42-8	Boron (B) (dissolved)		NP	12	12	10	94	500	373.5	500	1000	2000	0	0	0	0	
7440-39-3	Barium (Ba) (dissolved)			12	12	0.06	19	51	49.9	51	1300	n/a	0		0		
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP	12	10	0.02	<0.02	0.37	0.3205	0.37	5	0.08	0	5	0	5	EQS (inland) dependent on hardness of receiving surface water environment
7440-48-4	Cobalt (Co) (dissolved)		NP	12	12	0.2	0.3	16	13.8	16	n/a	3		6		6	
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H	12	0	5	<5	<5	<5	<5	n/a	3.4		12		0	
16065-83-1	Chromium (III) (Cr) (dissolved)	SP		12	12	0.2	1	8	7.505	8	n/a	4.7		6		6	
7440-47-3	Chromium (Cr) (total) (dissolved)			12	12	0.2	1	8	7.505	8	50	n/a	0		0		
7440-50-8	Copper (Cu) (dissolved)	SP	NP	12	12	0.5	1.3	5.6	4.72	5.6	2000	1	0	12	0	12	Bioavailable EQS (inland)
7439-89-6	Iron (Fe) (dissolved)	SP		12	12	4	5	510	477	510	200	1000	3	0	3	0	
7439-97-6	Mercury (Hg) (dissolved)	PH	H	12	2	0.05	<0.05	0.8	0.569	0.8	1	0.07	0	2	0	2	
P1286	Manganese (Mn) (dissolved)	SP		12	12	0.05	31	2600	2490	2600	50	123	10	9	10	9	Bioavailable EQS (inland)
7440-23-5	Sodium (Na) (dissolved)			12	12	10	53000	230000	186000	230000	200000	n/a	1		1		
7440-02-0	Nickel (Ni) (dissolved)	*P*	NP	12	12	0.5	2	18	16.9	18	20	4	0	8	0	8	Bioavailable EQS (inland)
7439-92-1	Lead (Pb) (dissolved)	*P*	H	12	0	0.2	<0.2	<0.2	<0.2	<0.2	10	1.2	0	0	0	0	Bioavailable EQS (inland)
7440-36-0	Antimony (Sb) (dissolved)		NP	12	7	0.4	<0.4	1.1	0.935	1.1	5	n/a	0		0		
7782-49-2	Selenium (Se) (dissolved)		NP	12	12	0.6	0.8	6.2	5.705	6.2	10	n/a	0		0		
7440-31-5	Tin (Sn) (dissolved)			12	2	0.2	<0.2	0.45	0.4335	0.45	n/a	25		0		0	
7440-62-2	Vanadium (V) (dissolved)			12	12	0.2	0.3	7.8	3.95	7.8	n/a	20		0		0	EQS (inland) dependent on hardness of receiving surface water environment
7440-66-6	Zinc (Zn) (dissolved)	SP	NP	12	12	0.5	1.8	15	13.35	15	n/a	12.3		1		1	Bioavailable EQS (inland) + ambient background concentration (ABC)
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP	12	2	1	<1	17	10.29	17	n/a	1		2		2	
57-12-5	Cyanide (total)			12	10	1	<1	720	654	720	50	n/a	4		4		
P1140	Ammonium (NH_4^+)		NP	12	12	15	18	65000	29965	65000	500	n/a	4		4		
P1238	Ammnoniacal Nitrogen (as N)		NP	12	11	15	<15	51000	23500	51000	n/a	300		4		4	
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP	12	12	15	18	65000	29965	65000	n/a	n/a					
15541-45-4	Bromate (BrO_3)			12	0	2	<2	<2	<2	<2	10	n/a	0		0		
16887-00-6	Chloride (Cl^-)			12	12	150	21000	220000	170500	220000	250000	250000	0	0	0	0	
16984-48-8	Fluoride (F^-)			12	12	50	66	270	226	270	1500	1000	0	0	0	0	EQS (inland) dependent on hardness of receiving surface water environment
P1348	Nitrate (NO_3^-)			12	12	50	370	14200	12440	14200	50000	n/a	0		0		
P1349	Nitrite (NO_2^-)			12	9	5	<5	460	259.8	460	500	n/a	0		0		
14808-79-8	Sulfate (SO_4^{2-})			12	12	45	129000	1450000	1417000	1450000	250000	400000	7	4	7	4	
P1134	pH (min.) (su)			12	12	0	6.9	7.9	7.845	7.9	6.5	6	0	0	0	0	
P1134	pH (max.) (su)			12	12	0	6.9	7.9	7.845	7.9	9.5	9	0	0	0	0	
P1287	Electrical conductivity (µS/cm)			12	12	10	470	2200	1980	2200	2500	n/a	0		0		
120-12-7	Anthracene	*PH*	H	12	0	0.01	<0.01	<0.01	<0.01	<0.01	n/a	0.1		0		0	
50-32-8	Benzo(a)pyrene	*PH*	H	12	0	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.00017	0	12	0	0	Benzo(a)pyrene EQS used as marker substance for the group of benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene & indeno (1,2,3-cd)pyrene
206-44-0	Fluoranthene	*P*	H	12	0	0.01	<0.01	<0.01	<0.01	<0.01	n/a	0.0063		12		0	
91-20-3	Naphthalene	P	NP	12	1	0.01	<0.01	139	62.5555	139	n/a	2		1		1	
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	*P*	H	12	0	0.04	<0.04	<0.04	<0.04	<0.04	0.1	n/a	0		0		
P1877	Phenol	SP	NP	12	6	0.05	<0.05	34	25.75	34	n/a	7.7		4		4	
P1407	Ali EC5-EC6			12	0	1	<1	<1	<1	<1	15000	10	0	0	0	0	n-hexane fall within this fraction
P1408	Ali >EC6-EC8			12	0	1	<1	<1	<1	<1	15000	10	0	0	0	0	n-heptane falls within this fraction
P1409	Ali >EC8-EC10			12	0	1	<1	<1	<1	<1	300	10	0	0	0	0	n-octane and n-nonane fall within this fraction
P1410	Ali >EC10-EC12			12	0	10	<10	<10	<10	<10	300	10	0	0	0	0	
P1411	Ali >EC12-EC16			12	0	10	<10	<10	<10	<10	300	10	0	0	0	0	
P1938	Ali >EC16-EC35			12	0	10	<10	<10	<10	<10	n/a	10		0		0	
P1415	Ali >EC35-EC44			12	0	10	<10	<10	<10	<10	n/a	10		0		0	
P1441	Aro EC5-EC7			12	1	1	<1	44	20.35	44	1	10	1	1	1	1	Benzene wholly representative of this fraction
P1355	Aro >EC7-EC8			12	1	1	<1	11	5.5	11	700	10	0	1	0	1	Toluene wholly representative of this fraction
P1356	Aro >EC8-EC10			12	1	1	<1	160	72.55	160	300	10	0	1	0	1	Ethylbenzene / xylene / trimethylbenzene representative of this range
P1357	Aro >EC10-EC12			12	1	10	<10	360	167.5	360	90	10	1	1	1	1	Naphthalene often forms a reasonable percentage of this fraction
P1358	Aro > EC12-EC16			12	1	10	<10	650	298	650	90	10	1	1	1	1	2-methylnaphthalene, acenpthylene, acenapthene falls within this fraction
P1359	Aro >EC16-EC21			12	1	10	<10	200	95.5	200	90	10	1	1	1	1	fluorene, anthracene, phenanthrene, pyrene falls within this range
P1360	Aro >EC21-EC35			12	0	10	<10	<10	<10	<10	90	10	0	0	0	0	Benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(cd)pyrene fall within this fraction
P1362	Aro >EC35-EC44			12	0	10	<10	<10	<10	<10	n/a	10		0		0	

Summary of Remedial Targets Methodology Screening

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RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples
Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Sandstone
Client: Crowning Developments Limited
Site: Gould Street

Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

P = priority substance
PH = priority hazardous substances.
WFD Designation (2015 Directions)
OP = Other substance identical to previous legislation
SP = Specific Pollutant

JAGDAG Hazardous Substances Determination (UK)
H Hazardous substance
NP Non-hazardous pollutant
(blank) Not included in assessment

CAS / AGS Number	Chemicals of Potential Concern (concentrations in µg/l)	WFD Designation	Hazardous Substance Status	Summary of Sample Data						Value Being Compared to Target = Maximum Value	Water Quality Target (Exceeded if Red)		No. Samples Exceeding Water Quality Target		No. Samples above LoD Exceeding Water		Notes
				No. of Samples	No. of Samples > LoD	Limit of Detection	Minimum Value	Maximum Value	95-%ile Value		DWS	Inland Waters EQS	DWS	Inland Waters EQS	DWS	Inland Waters EQS	
71-43-2	Benzene	P	H	12	1	1	<1	44.2	20.44	44.2	1	10	1	1	1	1	EQS compared to dissolved metals as an initial screen, with no adjustment for bioavailability or ABC.
108-88-3	Toluene	SP	H	12	1	1	<1	11	5.5	11	700	74	0	0	0	0	
100-41-4	Ethylbenzene		H	12	1	1	<1	26	12.25	26	300	20	0	1	0	1	Proposed EQS for Ethylbenzene in Water, R&D Technical Report P2-115/TR4. EA 2001
95-47-6	o-Xylene		H	12	1	1	<1	44.7	20.665	44.7	500	30	0	1	0	1	DWS/EQS for total xylene
P1374	m,p-Xylene		H	12	1	1	<1	35.8	16.66	35.8	500	30	0	1	0	1	DWS/EQS for total xylene
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	12	0	1	<1	<1	<1	<1	15	n/a	0		0		Non health based value - WHO odour threshold
71-55-6	1,1,1-Trichloroethane		NP	12	0	1	<1	<1	<1	<1	n/a	100		0		0	
79-00-5	1,1,2-Trichloroethane		NP	12	0	1	<1	<1	<1	<1	n/a	400		0		0	
96-12-8	1,2-Dibromo-3-chloropropane			12	0	1	<1	<1	<1	<1	0.1	n/a	12		0		
106-93-4	1,2-Dibromoethane		H	12	0	1	<1	<1	<1	<1	0.4	n/a	12		0		
95-50-1	1,2-Dichlorobenzene		H	12	0	1	<1	<1	<1	<1	1000	20	0	0	0	0	
107-06-2	1,2-Dichloroethane (EDC)	P	NP	12	0	1	<1	<1	<1	<1	3	10	0	0	0	0	
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	12	0	1	<1	<1	<1	<1	50	n/a	0		0		DWS is for combined isomers
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	12	0	1	<1	<1	<1	<1	50	n/a	0		0		DWS is for combined isomers
78-87-5	1,2-Dichloropropane		H	12	0	1	<1	<1	<1	<1	40	n/a	0		0		
10061-01-5	cis 1,3-Dichloropropene		H	12	0	1	<1	<1	<1	<1	0.1	n/a	12		0		DWS is for combined isomers
10061-02-6	trans 1,3-Dichloropropene		H	12	0	1	<1	<1	<1	<1	0.1	n/a	12		0		DWS is for combined isomers
106-46-7	1,4-Dichlorobenzene		H	12	0	1	<1	<1	<1	<1	300	20	0	0	0	0	
75-27-4	Bromodichloromethane			12	0	1	<1	<1	<1	<1	60	n/a	0		0		
75-01-4	Chloroethene (vinyl chloride)		H	12	0	1	<1	<1	<1	<1	0.5	n/a	12		0		
124-48-1	Dibromochloromethane			12	0	1	<1	<1	<1	<1	100	n/a	0		0		
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)			12	0	1	<1	<1	<1	<1	n/a	20		0		0	
75-09-2	Dichloromethane	P	NP	12	0	1	<1	<1	<1	<1	20	20	0	0	0	0	
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	12	0	1	<1	<1	<1	<1	0.1	0.6	12	12	0	0	
100-42-5	Styrene		H	12	0	1	<1	<1	<1	<1	20	50	0	0	0	0	
25322-20-7	Tetrachloroethane (PCA)	SP		12	0	1	<1	<1	<1	<1	n/a	140		0		0	
127-18-4	Tetrachloroethene (PCE)	OP	NP	12	0	1	<1	<1	<1	<1	10	10	0	0	0	0	UK DWS applies to sum of tetrachloroethene and trichloroethene
GRP02	Tetrachloroethene (PCE) and trichloroethene (TCE)			12	0	1	<1	<1	<1	<1	10	n/a	0		0		UK DWS applies to sum of tetrachloroethene and trichloroethene
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	12	0	1	<1	<1	<1	<1	3	12	0	0	0	0	
75-25-2	Tribromomethane (bromoform)			12	0	1	<1	<1	<1	<1	100	n/a	0		0		
12002-48-1	Trichlorobenzenes	P	NP	12	0	1	<1	<1	<1	<1	n/a	0.4		12		0	
79-01-6	Trichloroethene	OP	H	12	0	1	<1	<1	<1	<1	10	10	0	0	0	0	UK DWS applies to sum of tetrachloroethene and trichloroethene
67-66-3	Trichloromethane (chloroform)	P	H	12	0	1	<1	<1	<1	<1	100	2.5	0	0	0	0	
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane			12	0	1	<1	<1	<1	<1	100	n/a	0		0		
88-06-2	2,4,6-Trichlorophenol		H	12	0	1	<1	<1	<1	<1	200	n/a	0		0		
120-83-2	2,4-Dichlorophenol	SP	H	12	0	1	<1	<1	<1	<1	n/a	4.2		0		0	
95-57-8	2-Chlorophenol		H	12	0	1	<1	<1	<1	<1	n/a	50		0		0	
554-00-7	3,4-Dichloroaniline	SP		12	0	1	<1	<1	<1	<1	n/a	0.2		12		0	
108-43-0	3-Chlorophenol		H	12	0	1	<1	<1	<1	<1	n/a	50		0		0	
59-50-7	4-Chloro, 3-methylphenol		H	12	0	1	<1	<1	<1	<1	n/a	40		0		0	
106-48-9	4-Chlorophenol		H	12	0	1	<1	<1	<1	<1	n/a	50		0		0	
85-68-7	Benzyl butyl phthalate	SP		12	0	1	<1	<1	<1	<1	n/a	7.5		0		0	
117-81-7	Di(2-ethylhexylphthalate) (DEHP)	PH	NP	12	0	1	<1	<1	<1	<1	8	1.3	0	0	0	0	
84-74-2	Dibutyl phthalate		NP	12	0	1	<1	<1	<1	<1	n/a	8		0		0	
84-66-2	Diethyl phthalate (DEP)			12	0	1	<1	<1	<1	<1	n/a	200		0		0	
131-11-3	Dimethyl phthalate (DMP)			12	0	1	<1	<1	<1	<1	n/a	800		0		0	
117-84-0	Dioctyl phthalates			12	0	1	<1	<1	<1	<1	n/a	20		0		0	
118-74-1	Hexachlorobenzene	PH	H	12	0	1	<1	<1	<1	<1	0.1	0.05	12	12	0	0	
104-40-5	Nonylphenol (4-Nonylphenol)	PH		12	0	1	<1	<1	<1	<1	n/a	0.3		12		0	
140-66-9	Octylphenol ((4-(1,1', 3,3'-tetramethylbutyl) -phenol))	P		12	0	1	<1	<1	<1	<1	n/a	0.1		12		0	
608-93-5	Pentachlorobenzene	PH	H	12	0	1	<1	<1	<1	<1	n/a	0.007		12		0	

Remedial Targets Methodology Data Table

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Hydrock Scenario: Scenario D - DWS & EQS (inland)

RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Sandstone
Client: Crowning Developments Limited
Site: Gould Street
Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

123* Exceeds solubility value
<1 Grey text and "<" sign if value <= LoD
999 Red text if value > DWS
Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 10

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	Strata / Zone	SST	SST	SST	SST	SST	SST	SST	SST	SST	SST	SST	SST
									Date sampled:	11/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
										MPBH702	MPBH706	MPBH711	MPBH713	MPBH715	MPBH702	MPBH715	MPBH706	MPBH713	MPBH711	BH303A (P3	BH301 (P3)
7440-22-4	Silver (Ag) (dissolved)				12	0.05	n/a	0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	20.5	<0.05	<0.05	<0.05	<0.05
7429-90-5	Aluminium (Al) (dissolved)				12	1	200	n/a		2.5	6.4	190	2.6	12	11	9.4	18	11	18	3.6	1.3
7440-38-2	Arsenic (As) (dissolved)	SP	H		12	0.15	10	50		0.79	1	0.75	0.76	0.59	0.72	0.62	2.87	0.86	0.77	0.58	3.02
7440-42-8	Boron (B) (dissolved)		NP		12	10	1000	2000		260	170	130	500	130	150	97	120	270	94	110	150
7440-39-3	Barium (Ba) (dissolved)				12	0.06	1300	n/a		39	49	19	41	51	40	41	34	28	31	26	27
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP		12	0.02	5	0.08		0.03	0.04	0.07	0.37	0.13	0.03	0.14	<0.02	0.09	0.03	0.28	<0.02
7440-48-4	Cobalt (Co) (dissolved)		NP		12	0.2	n/a	3		0.4	1.1	11	2.8	3.3	0.5	3.6	0.3	2.7	12	16	5.4
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H		12	5	n/a	3.4		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
16065-83-1	Chromium (III) (Cr) (dissolved)	SP			12	0.2	n/a	4.7		1	2	1.4	1.3	1.3	5	7.1	3.1	5	5	8	5
7440-47-3	Chromium (Cr) (total) (dissolved)				12	0.2	50	n/a		1	2	1.4	1.3	1.3	5	7.1	3.1	5	5	8	5
7440-50-8	Copper (Cu) (dissolved)	SP	NP		12	0.5	2000	1		1.4	1.9	1.3	2.1	1.8	5.6	2.3	2.6	4	3.3	4	2.6
7439-89-6	Iron (Fe) (dissolved)	SP			12	4	200	1000		11	43	99	27	6.1	5	9.8	11	140	450	290	510
7439-97-6	Mercury (Hg) (dissolved)	PH	H		12	0.05	1	0.07		<0.05	<0.05	<0.05	<0.05	0.38	<0.05	0.8	<0.05	<0.05	<0.05	<0.05	<0.05
P1286	Manganese (Mn) (dissolved)	SP			12	0.05	50	123		43	250	2600	840	900	100	720	31	610	2400	340	800
7440-23-5	Sodium (Na) (dissolved)				12	10	200000	n/a		84000	53000	97000	75000	69000	100000	55000	63000	150000	120000	67000	230000
7440-02-0	Nickel (Ni) (dissolved)	P	NP		12	0.5	20	4		2.9	2	14	10	15	3.5	18	2.5	7.8	16	14	7.5
7439-92-1	Lead (Pb) (dissolved)	P	H		12	0.2	10	1.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
7440-36-0	Antimony (Sb) (dissolved)		NP		12	0.4	5	n/a		0.8	0.5	<0.4	1.1	0.8	0.5	0.7	0.8	<0.4	<0.4	<0.4	<0.4
7782-49-2	Selenium (Se) (dissolved)		NP		12	0.6	10	n/a		6.2	5.3	1	1	1.2	4.8	0.8	4	3.1	1.5	3.8	5.2
7440-31-5	Tin (Sn) (dissolved)				12	0.2	n/a	25		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.45	<0.2	<0.2	0.42	<0.2	<0.2
7440-62-2	Vanadium (V) (dissolved)				12	0.2	n/a	20		0.5	0.6	0.5	0.7	0.3	0.6	0.3	7.8	0.8	0.3	0.5	0.8
7440-66-6	Zinc (Zn) (dissolved)	SP	NP		12	0.5	n/a	12.3		1.8	11	7.6	15	3.4	2.8	12	2.9	6.3	11	9	11
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP		12	1	n/a	1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	17	4.8
57-12-5	Cyanide (total)				12	1	50	n/a		<1	140	23	20	10	<1	6.6	21	53	25	600	720
P1140	Ammonium (NH_4^+)		NP		12	15	500	n/a		81	760	370	44	130	18	230	180	1300	160	570	65000
P1238	Ammnoniacal Nitrogen (as N)		NP		12	15	n/a	300		63	590	290	35	100	<15	180	140	1000	130	450	51000
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP		12	15	n/a	n/a		77	720	350	42	120	18	230	170	1300	160	570	65000
15541-45-4	Bromate (BrO_3)				12	2	10	n/a		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
16887-00-6	Chloride (Cl^-)				12	150	250000	250000		120000	41000	27000	42000	21000	110000	22000	36000	130000	43000	69000	220000
16984-48-8	Fluoride (F^-)				12	50	1500	1000		99	190	81	170	170	130	120	270	87	78	66	130
P1348	Nitrate (NO_3^-)				12	50	50000	n/a		6790	7680	780	1410	420	7570	370	11000	1410	470	14200	1200
P1349	Nitrite (NO_2^-)				12	5	500	n/a		38	96	<5	24	28	42	9.8	<5	460	<5	17	28
14808-79-8	Sulfate (SO_4^{2-})				12	45	250000	400000		320000	145000	1450000	697000	162000	297000	169000	129000	392000	1390000	195000	896000
P1134	pH (min.) (su)				12	0	6.5	6		7.7	7.5	6.9	7.2	7.5	7.8	7.7	7.9	7	7.2	7	7.2
P1134	pH (max.) (su)				12	0	9.5	9		7.7	7.5	6.9	7.2	7.5	7.8	7.7	7.9	7	7.2	7	7.2
P1287	Electrical conductivity (µS/cm)				12	10	2500	n/a		990	730	1600	1200	620	920	700	470	1300	1800	760	2200
120-12-7	Anthracene	PH	H	56	12	0.01	n/a	0.1		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
50-32-8	Benzo(a)pyrene	PH	H	3.8	12	0.01	0.01	0.00017		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
206-44-0	Fluoranthene	P	H	230	12	0.01	n/a	0.0063		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
91-20-3	Naphthalene	P	NP	19000	12	0.01	n/a	2		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	139
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	P	H		12	0.04	0.1	n/a		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
P1877	Phenol	SP	NP	84100000	12	0.05	n/a	7.7		<0.05	<0.05	<0.05	<0.05	<0.05	2.7	1.9	<0.05	8.6	8	19	34
P1407	Ali EC5-EC6			35900	12	1	15000	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
P1408	Ali >EC6-EC8			5370	12	1	15000	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
P1409	Ali >EC8-EC10			427	12	1	300	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
P1410	Ali >EC10-EC12			33.9	12	10	300	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
P1411	Ali >EC12-EC16			0.759	12	10	300	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
P1938	Ali >EC16-EC35			0.00254	12	10	n/a	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
P1415	Ali >EC35-EC44			0.00254	12	10	n/a	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
P1441	Aro EC5-EC7			1780000	12	1	1	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	44
P1355	Aro >EC7-EC8			590000	12	1	700	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	11
P1356	Aro >EC8-EC10			64600	12	1	300	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	160
P1357	Aro >EC10-EC12			24500	12	10	90	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	360
P1358	Aro > EC12-EC16			5750	12	10	90	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	650
P1359	Aro >EC16-EC21			653	12	10	90	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	200
P1360	Aro >EC21-EC35			6.61	12	10	90	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
P1362	Aro >EC35-EC44			6.61	12	10	n/a	10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
71-43-2	Benzene	P	H	1780000	12	1	1	10		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	44.2
108-88-3	Toluene	SP	H	590000	12	1	700	74		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	11
100-41-4	Ethylbenzene		H	180000	12	1	300	20		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	26
95-47-6	o-Xylene		H	173000	12	1	500	30		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	44.7
P1374	m,p-Xylene		H	200000	12	1	500	30		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	35.8
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	48000000	12	1	15	n/a		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Remedial Targets Methodology Data Table

Hydrock

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater Sandstone
Client: Crowning Developments Limited
Site: Gould Street
Job no: C-21353
Test Certificates(s): 21-33027-1/22-34061-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

123* Exceeds solubility value
<1 Grey text and "<" sign if value <= LoD
999 Red text if value > DWS
Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 10

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	MPBH702	MPBH706	MPBH711	MPBH713	MPBH715	MPBH702	MPBH715	MPBH706	MPBH713	MPBH711	BH303A (P3	BH301 (P3)
Strata / Zone									SST	SST	SST	SST	SST	SST	SST	SST	SST	SST	SST	SST
Date sampled:									11/01/2022	12/01/2022	12/01/2022	12/01/2022	12/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022	18/01/2022
71-55-6	1,1,1-Trichloroethane		NP	1300000	12	1	n/a	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
79-00-5	1,1,2-Trichloroethane		NP	4490000	12	1	n/a	400	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
96-12-8	1,2-Dibromo-3-chloropropane			1230000	12	1	0.1	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
106-93-4	1,2-Dibromoethane		H	4300000	12	1	0.4	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
95-50-1	1,2-Dichlorobenzene		H	133000	12	1	1000	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
107-06-2	1,2-Dichloroethane (EDC)	P	NP	8680000	12	1	3	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	7550000	12	1	50	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	5250000	12	1	50	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
78-87-5	1,2-Dichloropropane		H	2050000	12	1	40	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10061-01-5	cis 1,3-Dichloropropene		H	2700000	12	1	0.1	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
10061-02-6	trans 1,3-Dichloropropene		H	2800000	12	1	0.1	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
106-46-7	1,4-Dichlorobenzene		H	103000	12	1	300	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
75-27-4	Bromodichloromethane			3000000	12	1	60	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
75-01-4	Chloroethene (vinyl chloride)		H	2760000	12	1	0.5	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
124-48-1	Dibromochloromethane			1050000	12	1	100	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)				12	1	n/a	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
75-09-2	Dichloromethane	P	NP	20100000	12	1	20	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	4800	12	1	0.1	0.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
100-42-5	Styrene		H	290000	12	1	20	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
25322-20-7	Tetrachloroethene (PCA)	SP			12	1	n/a	140	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
127-18-4	Tetrachloroethene (PCE)	OP	NP	225000	12	1	10	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GRP02	Tetrachloroethene (PCE) and trichloroethene (TCE)				12	1	10	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	846000	12	1	3	12	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
75-25-2	Tribromomethane (bromoform)			3000000	12	1	100	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
12002-48-1	Trichlorobenzenes	P	NP		12	1	n/a	0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
79-01-6	Trichloroethene	OP	H	1370000	12	1	10	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
67-66-3	Trichloromethane (chloroform)	P	H	8950000	12	1	100	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane				12	1	100	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
88-06-2	2,4,6-Trichlorophenol		H	434000	12	1	200	n/a	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
120-83-2	2,4-Dichlorophenol	SP	H	4500000	12	1	n/a	4.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
95-57-8	2-Chlorophenol		H	22700000	12	1	n/a	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
554-00-7	3,4-Dichloroaniline	SP			12	1	n/a	0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
108-43-0	3-Chlorophenol		H		12	1	n/a	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
59-50-7	4-Chloro, 3-methylphenol		H		12	1	n/a	40	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
106-48-9	4-Chlorophenol		H		12	1	n/a	50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
85-68-7	Benzyl butyl phthalate	SP			12	1	n/a	7.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
117-81-7	Di(2-ethylhexylphthalate) (DEHP)	PH	NP		12	1	8	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
84-74-2	Dibutyl phthalate		NP		12	1	n/a	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
84-66-2	Diethyl phthalate (DEP)				12	1	n/a	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
131-11-3	Dimethyl phthalate (DMP)				12	1	n/a	800	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
117-84-0	Dioctyl phthalates				12	1	n/a	20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
118-74-1	Hexachlorobenzene	PH	H	9.6	12	1	0.1	0.05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
104-40-5	Nonylphenol (4-Nonylphenol)	PH			12	1	n/a	0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
140-66-9	Octylphenol ((4-(1,1′, 3,3'-tetramethylbutyl) -phenol))	P			12	1	n/a	0.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
608-93-5	Pentachlorobenzene	PH	H	500	12	1	n/a	0.007	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Appendix F Waste Assessment

HazWasteOnline™ Assessment

Hydrock

HazWasteOnline™

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.

HN70R-EX6YI-9BRNB

Job name

Gould Street, Manchester

Description/Comments

i2 Lab reports: 21-23857_3, 21-24529, 21-24547, 21-24726, 21-25355, 21-26273, 21-27101, 21-27642, 21-28774 & 21-29854

Project

C-21353

Site

Gould Street, Manchester

Classified by

Name:
Will Swinnerton
Date:
03 Feb 2022 11:14 GMT
Telephone:
(01782) 261919

Company:
Hydrock Consultants Ltd
4 Lakeside, Festival Park, Stoke-on-Trent.
ST1 5RY

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

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	08 Sep 2020

Next 3 year Refresher due by Sep 2023

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	MPBH03A-1-16112021-0.20		Non Hazardous		4
2	TP08-1-17112021-0.40		Non Hazardous		6
3	TP04-3-17112021-0.90		Hazardous	HP 7, HP 11	8
4	TP04-5-17112021-1.15		Hazardous	HP 7, HP 11	11
5	TP04-4-17112021-1.05		Non Hazardous		17
6	TP07-1-17112021-0.60		Non Hazardous		18
7	TP14-1-17112021-0.50		Non Hazardous		20
8	TP13-1-17112021-0.55		Non Hazardous		22
9	TP13-4-17112021-1.10		Non Hazardous		24
10	TP13-5-17112021-1.40		Hazardous	HP 7, HP 11	29
11	TP11-2-14112021-0.65		Non Hazardous		35
12	TP11-4-14112021-0.70		Non Hazardous		38
13	TP03-1-14112021-0.20		Non Hazardous		39
14	TP03-2-14112021-0.50		Non Hazardous		41
15	TP03-5-14112021-2.50		Non Hazardous		43
16	TP20-1-14112021-0.20		Non Hazardous		44
17	TP20-2-14112021-0.80		Non Hazardous		46
18	TP20-3-19112021-0.90		Non Hazardous		47
19	TP20-4-19112021-1.40		Hazardous	HP 7, HP 11	53
20	TP20-7-19112021-1.75		Non Hazardous		59
21	WS04-2-17112021-0.20		Non Hazardous		65
22	WS04-3-17112021-0.20		Hazardous	HP 7, HP 11	66
23	WS02-1-17112021-0.70		Hazardous	HP 7, HP 11	72
24	TP15-1-17112021-0.75		Non Hazardous		78
25	TP15-3-17112021-0.90		Non Hazardous		80
26	TP15-4-17112021-1.25		Non Hazardous		81
27	TP10-1-17112021-0.80		Non Hazardous		84
28	TP10-2-17112021-0.90		Non Hazardous		86
29	WS04-7-22112021-1.20		Hazardous	HP 7, HP 11	87

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
30	WS04-8-22112021-1.80		Non Hazardous		93
31	WS04-10-22112021-2.50		Non Hazardous		99
32	WS02-5-22112021-1.40		Non Hazardous		100
33	WS02-6-22112021-1.80		Non Hazardous		103
34	WS02-10-22112021-3.00		Hazardous	HP 7, HP 11	108
35	WS02-11-22112021-3.50		Non Hazardous		114
36	WS02-12-22112021-3.70		Non Hazardous		119
37	MPBH08-1-22112021-0.50		Hazardous	HP 8	120
38	WS03-1-22112021-0.80		Non Hazardous		123
39	WS03-4-22112021-1.40		Non Hazardous		125
40	WS03-5-22112021-1.70		Non Hazardous		130
41	WS01-1-22112021-0.50		Non Hazardous		131
42	WS01-4-22112021-0.90		Non Hazardous		133
43	MPBH03-6-25112021-4.20		Non Hazardous		135
44	MPBH03-3-25112021-1.40		Non Hazardous		136
45	MPBH04-18-25112021-6.20		Non Hazardous		137
46	MPBH06-1-25112021-0.50		Non Hazardous		138
47	MPBH04-1-25112021-0.50		Non Hazardous		140
48	MPBH04-4-25112021-1.20		Non Hazardous		142
49	MPBH10-2-25112021-0.50		Non Hazardous		143
50	TP12-1-29112021-0.20		Non Hazardous		145
51	TP12-2-29112021-1.30		Non Hazardous		147
52	TP12-5-29112021-1.80		Non Hazardous		149
53	TP16-1-29112021-0.50		Hazardous	HP 7, HP 11	150
54	TP16-3-29112021-1.10		Non Hazardous		152
55	TP16-5-29112021-1.80		Non Hazardous		158
56	TP01-2-29112021-0.40		Non Hazardous		163
57	TP22-2-29112021-1.00		Hazardous	HP 14	166
58	TP22-3-29112021-1.70		Non Hazardous		169
59	MPBH07-1-29112021-0.50		Non Hazardous		172
60	MPBH06-19-30112021-16.80		Non Hazardous		175
61	MPBH06-20-30112021-17.00		Non Hazardous		181
62	MPBH05-2-01122021-0.60		Non Hazardous		182
63	MPBH09-1-01122021-0.80		Non Hazardous		183
64	MPBH09-3-01122021-3.80		Non Hazardous		185
65	MPBH04-4-01122021-4.80		Non Hazardous		191
66	MPBH04-22-01122021-6.20		Non Hazardous		196
67	MPBH11-3-02122021-3.70		Hazardous	HP 7, HP 11	197
68	MPBH11-4-02122021-4.80		Non Hazardous		203
69	MPBH11-13-02122021-4.00		Non Hazardous		208
70	MPBH11-14-02122021-6.80		Non Hazardous		209
71	MPBH07-17-02122021-16.50		Non Hazardous		210
72	MPBH07-19-02122021-16.47		Non Hazardous		211
73	MPBH15-10-03122021-2.50		Non Hazardous		212
74	MPBH09-28-06122021-16.50		Non Hazardous		213
75	MPBH11-23-06122021-18.10		Non Hazardous		214
76	MPBH13-3-06122021-0.60		Non Hazardous		215
77	MPBH11-24-06122021-18.30		Non Hazardous		216
78	MPBH15-2-03122021-0.50		Non Hazardous		217
79	MPBH05-4-13122021-2.50		Non Hazardous		218
80	MPBH05-6-13122021-4.50		Non Hazardous		219
81	MPBH13-23-09122021-16.70		Non Hazardous		220
82	MPBH13-24-09122021-18.20		Non Hazardous		221
83	MPBH701-4-16122021-2.50		Non Hazardous		222
84	MPBH702-19-16122021-21.60		Non Hazardous		223
85	MPBH702-26-16122021-19.80		Non Hazardous		224

Related documents

#	Name	Description
1	21-23857_3_HWOL_Results.hwol	.hwol file used to create the Job
2	21-24529_HWOL_Results.hwol	.hwol file used to create the Job
3	21-24547_HWOL_Results.hwol	.hwol file used to create the Job
4	21-24726_HWOL_Results.hwol	.hwol file used to create the Job
5	21-28774_HWOL_Results.hwol	.hwol file used to create the Job
6	21-29854_HWOL_Results.hwol	.hwol file used to create the Job
7	21-25355_HWOL_Results.hwol	.hwol file used to create the Job

#	Name	Description
8	21-26273_HWOL_Results.hwol	.hwol file used to create the Job
9	21-27101_HWOL_Results.hwol	.hwol file used to create the Job
10	21-27642_HWOL_Results.hwol	.hwol file used to create the Job
11	Hydrock Standard plus Cresol (ammended Lead)	waste stream template used to create this Job

Report

Created by: Will Swinnerton

Created date: 03 Feb 2022 11:14 GMT

Appendices	Page
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Appendix B: Rationale for selection of metal species	229
Appendix C: Version	230

Classification of sample: MPBH03A-1-16112021-0.20

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

Sample details

Sample name:
MPBH03A-1-16112021-0.20
Moisture content:
15%
(wet 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% Wet 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	acenaphthene		201-469-6	83-32-9		0.2 mg/kg		0.17 mg/kg	0.000017 %	✓	
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		0.45 mg/kg		0.383 mg/kg	0.0000383 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	13.467 mg/kg	0.00135 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.99 mg/kg		0.842 mg/kg	0.0000841 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.91 mg/kg		0.774 mg/kg	0.0000774 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.94 mg/kg		0.799 mg/kg	0.0000799 %	✓	
8	benzo[ghi]perylene		205-883-8	191-24-2		0.59 mg/kg		0.501 mg/kg	0.0000501 %	✓	
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.52 mg/kg		0.442 mg/kg	0.0000442 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.71 mg/kg	2.775	1.675 mg/kg	0.000167 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.708 mg/kg	0.000571 %	✓	
12	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
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	28.573 mg/kg	0.00286 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9		0.97 mg/kg		0.825 mg/kg	0.0000824 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41 mg/kg	1.126	39.237 mg/kg	0.00392 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		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									
19		fluoranthene				2	mg/kg		1.7	mg/kg	0.00017 %	✓	
			205-912-4	206-44-0									
20		fluorene				0.23	mg/kg		0.196	mg/kg	0.0000196 %	✓	
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				0.48	mg/kg		0.408	mg/kg	0.0000408 %	✓	
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	55	mg/kg		46.75	mg/kg	0.00468 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				0.38	mg/kg		0.323	mg/kg	0.0000323 %	✓	
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				18	mg/kg	1.579	24.166	mg/kg	0.00242 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
27		phenanthrene				1.8	mg/kg		1.53	mg/kg	0.000153 %	✓	
			201-581-5	85-01-8									
28		pyrene				2.1	mg/kg		1.785	mg/kg	0.000179 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				76	mg/kg	1.245	80.409	mg/kg	0.00804 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
32		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	36.418	mg/kg	0.00364 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0304 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP08-1-17112021-0.40

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

Sample details

Sample name:
TP08-1-17112021-0.40
Moisture content:
8.2%
(wet 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: 8.2% Wet 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	acenaphthene		201-469-6	83-32-9		0.75 mg/kg		0.688 mg/kg	0.0000688 %	✓	
2	acenaphthylene		205-917-1	208-96-8		0.43 mg/kg		0.395 mg/kg	0.0000395 %	✓	
3	anthracene		204-371-1	120-12-7		1.4 mg/kg		1.285 mg/kg	0.000129 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.3 mg/kg	1.32	8.848 mg/kg	0.000885 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.8 mg/kg		2.57 mg/kg	0.000257 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.2 mg/kg		2.02 mg/kg	0.000202 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.4 mg/kg		2.203 mg/kg	0.00022 %	✓	
8	benzo[ghi]perylene		205-883-8	191-24-2		1.4 mg/kg		1.285 mg/kg	0.000129 %	✓	
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.1 mg/kg		1.01 mg/kg	0.000101 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.96 mg/kg	2.775	2.446 mg/kg	0.000245 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.2 mg/kg	13.43	2.466 mg/kg	0.000247 %	✓	
12	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
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31 mg/kg	1.462	41.593 mg/kg	0.00416 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9		2.7 mg/kg		2.479 mg/kg	0.000248 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.126	17.571 mg/kg	0.00176 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				0.3	mg/kg		0.275	mg/kg	0.0000275 %	✓	
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				6.4	mg/kg		5.875	mg/kg	0.000588 %	✓	
			205-912-4	206-44-0									
20		fluorene				0.92	mg/kg		0.845	mg/kg	0.0000845 %	✓	
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				1.1	mg/kg		1.01	mg/kg	0.000101 %	✓	
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	12	mg/kg		11.016	mg/kg	0.0011 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				1.5	mg/kg		1.377	mg/kg	0.000138 %	✓	
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				30	mg/kg	1.579	43.499	mg/kg	0.00435 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
27		phenanthrene				7.8	mg/kg		7.16	mg/kg	0.000716 %	✓	
			201-581-5	85-01-8									
28		pyrene				6.9	mg/kg		6.334	mg/kg	0.000633 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				48	mg/kg	1.245	54.847	mg/kg	0.00548 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				32	mg/kg	1.785	52.442	mg/kg	0.00524 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0279 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP04-3-17112021-0.90

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

Sample details

Sample name:
TP04-3-17112021-0.90
Moisture content:
8.5%
(wet 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.: 0.531%)

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.: 0.531%)

Determinands

Moisture content: 8.5% Wet 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		acenaphthene		201-469-6	83-32-9		140	mg/kg		128.1	mg/kg	0.0128 %	✓	
2		acenaphthylene		205-917-1	208-96-8		57	mg/kg		52.155	mg/kg	0.00522 %	✓	
3		anthracene		204-371-1	120-12-7		210	mg/kg		192.15	mg/kg	0.0192 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		130	mg/kg	1.32	157.053	mg/kg	0.0157 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		400	mg/kg		366	mg/kg	0.0366 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		260	mg/kg		237.9	mg/kg	0.0238 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		330	mg/kg		301.95	mg/kg	0.0302 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		130	mg/kg		118.95	mg/kg	0.0119 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		100	mg/kg		91.5	mg/kg	0.00915 %	✓	

#		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
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.5	mg/kg	2.775	1.27	mg/kg	0.000127 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.3	mg/kg	13.43	15.975	mg/kg	0.0016 %	✓	
13		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**
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14	mg/kg	1.462	18.723	mg/kg	0.00187 %	✓	
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
16		chrysene	601-048-00-0	205-923-4	218-01-9		340	mg/kg		311.1	mg/kg	0.0311 %	✓	
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		59	mg/kg	1.126	60.781	mg/kg	0.00608 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		40	mg/kg		36.6	mg/kg	0.00366 %	✓	
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.012	mg/kg		0.011	mg/kg	0.0000011 %	✓	
21		fluoranthene		205-912-4	206-44-0		750	mg/kg		686.25	mg/kg	0.0686 %	✓	
22		fluorene		201-695-5	86-73-7		160	mg/kg		146.4	mg/kg	0.0146 %	✓	
23		indeno[123-cd]pyrene		205-893-2	193-39-5		110	mg/kg		100.65	mg/kg	0.0101 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	99	mg/kg		90.585	mg/kg	0.00906 %	✓	
25		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**
26		naphthalene	601-052-00-2	202-049-5	91-20-3		320	mg/kg		292.8	mg/kg	0.0293 %	✓	
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		25	mg/kg	1.579	36.131	mg/kg	0.00361 %	✓	
28		pH			PH		7.7	pH		7.7	pH	7.7 pH		
29		phenanthrene		201-581-5	85-01-8		1100	mg/kg		1006.5	mg/kg	0.101 %	✓	
30		pyrene		204-927-3	129-00-0		750	mg/kg		686.25	mg/kg	0.0686 %	✓	
31		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**
32		toluene	601-021-00-3	203-625-9	108-88-3		0.035	mg/kg		0.032	mg/kg	0.0000032 %	✓	
33		TPH (C6 to C40) petroleum group			TPH		5800	mg/kg		5307	mg/kg	0.531 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]		0.147	mg/kg		0.135	mg/kg	0.0000135 %	✓	

#		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									
			203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]									
35		zinc { zinc oxide }				70	mg/kg	1.245	79.724	mg/kg	0.00797 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
36		asbestos				130	mg/kg		118.95	mg/kg	0.0119 %	✓	
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
37		monohydric phenols				2	mg/kg		1.83	mg/kg	0.000183 %	✓	
				P1186									
38		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	39.203	mg/kg	0.00392 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
39		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	1.069 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

ethylbenzene: (conc.: 1.1e-06%)
toluene: (conc.: 3.2e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.531%)
xylene: (conc.: 0.00001%)

Classification of sample: TP04-5-17112021-1.15

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

Sample details

Sample name:
TP04-5-17112021-1.15
Moisture content:
19%
(wet 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.: 0.608%)

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.: 0.608%)

Determinands

Moisture content: 19% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		**<LOD**
2		acenaphthene		201-469-6	83-32-9		23	mg/kg		18.63	mg/kg	0.00186 %	✓	
3		acenaphthylene		205-917-1	208-96-8		7.5	mg/kg		6.075	mg/kg	0.000607 %	✓	
4		anthracene		204-371-1	120-12-7		50	mg/kg		40.5	mg/kg	0.00405 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		200	mg/kg	1.32	213.893	mg/kg	0.0214 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		170	mg/kg		137.7	mg/kg	0.0138 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		200	mg/kg		162	mg/kg	0.0162 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		200	mg/kg		162	mg/kg	0.0162 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		93	mg/kg		75.33	mg/kg	0.00753 %	✓	

#		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
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		57	mg/kg		46.17	mg/kg	0.00462 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.9	mg/kg	2.775	2.023	mg/kg	0.000202 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.9	mg/kg	13.43	9.79	mg/kg	0.000979 %	✓	
14		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
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18	mg/kg	1.462	21.309	mg/kg	0.00213 %	✓	
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		130	mg/kg		105.3	mg/kg	0.0105 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		96	mg/kg	1.126	87.549	mg/kg	0.00875 %	✓	
19		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
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		24	mg/kg		19.44	mg/kg	0.00194 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		180	mg/kg		145.8	mg/kg	0.0146 %	✓	
23		fluorene		201-695-5	86-73-7		16	mg/kg		12.96	mg/kg	0.0013 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		80	mg/kg		64.8	mg/kg	0.00648 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	45	mg/kg		36.45	mg/kg	0.00365 %	✓	
26		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
27		naphthalene	601-052-00-2	202-049-5	91-20-3		21	mg/kg		17.01	mg/kg	0.0017 %	✓	
28		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	55.014	mg/kg	0.0055 %	✓	
29		pH			PH		7	pH		7	pH	7pH		
30		phenanthrene		201-581-5	85-01-8		140	mg/kg		113.4	mg/kg	0.0113 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
32		pyrene		204-927-3	129-00-0		210	mg/kg		170.1	mg/kg	0.017 %	✓	
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
35		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		TPH (C6 to C40) petroleum group				7500	mg/kg		6075	mg/kg	0.608 %	✓	
				TPH									
37		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
38		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
39		zinc { zinc oxide }				50	mg/kg	1.245	50.411	mg/kg	0.00504 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
40		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				1.7	mg/kg		1.377	mg/kg	0.000138 %	✓	
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	40.488	mg/kg	0.00405 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				2.1	mg/kg		1.701	mg/kg	0.00017 %	✓	
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		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									
57		2,4,6-trichlorophenol											
		604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
58		2,4,5-trichlorophenol											
		604-017-00-X	202-467-8	95-95-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
59		2-methyl naphthalene											
			202-078-3	91-57-6		16	mg/kg		12.96	mg/kg	0.0013 %	✓	
60		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
61		dimethyl phthalate											
			205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
62		2,6-dinitrotoluene											
		609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]											
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
64		dibenzofuran											
			205-071-3	132-64-9		9.1	mg/kg		7.371	mg/kg	0.000737 %	✓	
65		4-chlorophenylphenylether											
			230-281-7	7005-72-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
66		diethyl phthalate											
			201-550-6	84-66-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]											
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
68		azobenzene											
		611-001-00-6	203-102-5	103-33-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
69		4-bromophenylphenylether											
			202-952-4	101-55-3		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
70		carbazole											
			201-696-0	86-74-8		14	mg/kg		11.34	mg/kg	0.00113 %	✓	
71		dibutyl phthalate; DBP											
		607-318-00-4	201-557-4	84-74-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
72		anthraquinone											
		606-151-00-4	201-549-0	84-65-1		3.9	mg/kg		3.159	mg/kg	0.000316 %	✓	
73		BBP; benzyl butyl phthalate											
		607-430-00-3	201-622-7	85-68-7		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
74		1,1,1-trichloroethane; methyl chloroform											
		602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
75		1,1,2,2-tetrachloroethane											
		602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
76		1,1,2-trichloroethane											
		602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
77		1,1-dichloroethylene; vinylidene chloride											
		602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
78		1,1-dichloropropene											
		602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
79		1,2,3-trichlorobenzene											
			201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
80		1,2,4-trimethylbenzene											
		601-043-00-3	202-436-9	95-63-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
81		1,2-dibromoethane											
		602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
82		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
83		1,2-dichloropropane; propylene dichloride											
		602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
84		1,3-dichlorbenzene											
		602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.794 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.608%)

Classification of sample: TP04-4-17112021-1.05

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

Sample details

Sample name:
TP04-4-17112021-1.05
Moisture content:
11%
(wet 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% Wet 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		pH			PH		6.8 pH		6.8 pH	6.8 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		130 mg/kg	1.85	213.995 mg/kg	0.0214 %	✓	
									Total:	0.0214 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: TP07-1-17112021-0.60

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

Sample details

Sample name:
TP07-1-17112021-0.60
Moisture content:
8.6%
(wet 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: 8.6% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.4	mg/kg	1.32	5.31	mg/kg	0.000531 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
6		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
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	2.79	mg/kg	0.000279 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.2	mg/kg	13.43	2.455	mg/kg	0.000246 %	✓	
12		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30	mg/kg	1.462	40.076	mg/kg	0.00401 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17	mg/kg	1.126	17.494	mg/kg	0.00175 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		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									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	12	mg/kg		10.968	mg/kg	0.0011 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				26	mg/kg	1.579	37.535	mg/kg	0.00375 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				6.6	pH		6.6	pH	6.6 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				46	mg/kg	1.245	52.333	mg/kg	0.00523 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				33	mg/kg	1.785	53.845	mg/kg	0.00538 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0231 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP14-1-17112021-0.50

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

Sample details

Sample name:
TP14-1-17112021-0.50
Moisture content:
11%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.24	mg/kg		0.214	mg/kg	0.0000214 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.9	mg/kg	1.32	8.108	mg/kg	0.000811 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.36	mg/kg		0.32	mg/kg	0.000032 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.37	mg/kg		0.329	mg/kg	0.0000329 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.36	mg/kg		0.32	mg/kg	0.000032 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.15	mg/kg		0.134	mg/kg	0.0000134 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.3	mg/kg	2.775	3.211	mg/kg	0.000321 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.781	mg/kg	0.000478 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31	mg/kg	1.462	40.324	mg/kg	0.00403 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.29	mg/kg		0.258	mg/kg	0.0000258 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26	mg/kg	1.126	26.053	mg/kg	0.00261 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		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									
19		fluoranthene				0.75	mg/kg		0.668	mg/kg	0.0000668 %	✓	
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	23	mg/kg		20.47	mg/kg	0.00205 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				32	mg/kg	1.579	44.984	mg/kg	0.0045 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				9.1	pH		9.1	pH	9.1 pH		
				PH									
27		phenanthrene				0.75	mg/kg		0.668	mg/kg	0.0000668 %	✓	
			201-581-5	85-01-8									
28		pyrene				0.72	mg/kg		0.641	mg/kg	0.0000641 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				70	mg/kg	1.245	77.546	mg/kg	0.00775 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				37	mg/kg	1.785	58.786	mg/kg	0.00588 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0295 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP13-1-17112021-0.55

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

Sample details

Sample name:
TP13-1-17112021-0.55
Moisture content:
15%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		0.3	mg/kg		0.255	mg/kg	0.0000255 %	✓	
3		anthracene		204-371-1	120-12-7		0.64	mg/kg		0.544	mg/kg	0.0000544 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		56	mg/kg	1.32	62.847	mg/kg	0.00628 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.89	mg/kg		0.757	mg/kg	0.0000757 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.92	mg/kg		0.782	mg/kg	0.0000782 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		0.59	mg/kg		0.501	mg/kg	0.0000501 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.49	mg/kg		0.417	mg/kg	0.0000416 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		5.5	mg/kg	2.775	12.975	mg/kg	0.0013 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.3	mg/kg	13.43	14.84	mg/kg	0.00148 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		39	mg/kg	1.462	48.451	mg/kg	0.00485 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		380	mg/kg	1.126	363.662	mg/kg	0.0364 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		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									
19		fluoranthene				2.2	mg/kg		1.87	mg/kg	0.000187 %	✓	
			205-912-4	206-44-0									
20		fluorene				0.39	mg/kg		0.331	mg/kg	0.0000331 %	✓	
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				0.56	mg/kg		0.476	mg/kg	0.0000476 %	✓	
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	140	mg/kg		119	mg/kg	0.0119 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				97	mg/kg	1.579	130.23	mg/kg	0.013 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
27		phenanthrene				2.1	mg/kg		1.785	mg/kg	0.000179 %	✓	
			201-581-5	85-01-8									
28		pyrene				2.3	mg/kg		1.955	mg/kg	0.000195 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				480	mg/kg	1.245	507.843	mg/kg	0.0508 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				98	mg/kg	1.785	148.706	mg/kg	0.0149 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.143 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP13-4-17112021-1.10

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

Sample details

Sample name:
TP13-4-17112021-1.10
Moisture content:
18%
(wet 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% Wet 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	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
2	●	acenaphthene		201-469-6	83-32-9		6.8	mg/kg		5.576	mg/kg	0.000558 %	✓	
3	●	acenaphthylene		205-917-1	208-96-8		13	mg/kg		10.66	mg/kg	0.00107 %	✓	
4	●	anthracene		204-371-1	120-12-7		44	mg/kg		36.08	mg/kg	0.00361 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		0.041	mg/kg		0.0336	mg/kg	0.00000336 %	✓	
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		55	mg/kg		45.1	mg/kg	0.00451 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		52	mg/kg		42.64	mg/kg	0.00426 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		54	mg/kg		44.28	mg/kg	0.00443 %	✓	
9	●	benzo[ghi]perylene		205-883-8	191-24-2		29	mg/kg		23.78	mg/kg	0.00238 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		15	mg/kg		12.3	mg/kg	0.00123 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		46	mg/kg		37.72	mg/kg	0.00377 %	✓	
12		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		5.2	mg/kg		4.264	mg/kg	0.000426 %	✓	
13	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.035	mg/kg		0.0287	mg/kg	0.00000287 %	✓	
14	●	fluoranthene		205-912-4	206-44-0		120	mg/kg		98.4	mg/kg	0.00984 %	✓	
15	●	fluorene		201-695-5	86-73-7		34	mg/kg		27.88	mg/kg	0.00279 %	✓	
16	●	indeno[123-cd]pyrene		205-893-2	193-39-5		25	mg/kg		20.5	mg/kg	0.00205 %	✓	
17		naphthalene	601-052-00-2	202-049-5	91-20-3		8.8	mg/kg		7.216	mg/kg	0.000722 %	✓	
18	●	phenanthrene		201-581-5	85-01-8		140	mg/kg		114.8	mg/kg	0.0115 %	✓	

#		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									
19		phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				130	mg/kg		106.6	mg/kg	0.0107 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
22		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				600	mg/kg		492	mg/kg	0.0492 %	✓	
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
25		xylene				0.054	mg/kg		0.0443	mg/kg	0.00000443 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				1.7	mg/kg		1.394	mg/kg	0.000139 %	✓	
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				19	mg/kg		15.58	mg/kg	0.00156 %	✓	
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				8.6	mg/kg		7.052	mg/kg	0.000705 %	✓	
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				1.2	mg/kg		0.984	mg/kg	0.0000984 %	✓	
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				0.078	mg/kg		0.064	mg/kg	0.0000064 %	✓	
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
97		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
98		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
99		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.116 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 3.36e-06%)
ethylbenzene: (conc.: 2.87e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0492%)
xylene: (conc.: 4.43e-06%)
1,2,4-trimethylbenzene: (conc.: 6.4e-06%)

Classification of sample: TP13-5-17112021-1.40

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

Sample details

Sample name:
TP13-5-17112021-1.40
Moisture content:
22%
(wet 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.: 0.242%)

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.: 0.242%)

Determinands

Moisture content: 22% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		**<LOD**
2		acenaphthene		201-469-6	83-32-9		25 mg/kg		19.5 mg/kg	0.00195 %	✓	
3		acenaphthylene		205-917-1	208-96-8		63 mg/kg		49.14 mg/kg	0.00491 %	✓	
4		anthracene		204-371-1	120-12-7		140 mg/kg		109.2 mg/kg	0.0109 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	25.746 mg/kg	0.00257 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		3.7 mg/kg		2.886 mg/kg	0.000289 %	✓	
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		120 mg/kg		93.6 mg/kg	0.00936 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		96 mg/kg		74.88 mg/kg	0.00749 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		100 mg/kg		78 mg/kg	0.0078 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		59 mg/kg		46.02 mg/kg	0.0046 %	✓	

#		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
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		44	mg/kg		34.32	mg/kg	0.00343 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	2.381	mg/kg	0.000238 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1	mg/kg	13.43	11.523	mg/kg	0.00115 %	✓	
14		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
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21	mg/kg	1.462	23.94	mg/kg	0.00239 %	✓	
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		100	mg/kg		78	mg/kg	0.0078 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		44	mg/kg	1.126	38.64	mg/kg	0.00386 %	✓	
19		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
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		14	mg/kg		10.92	mg/kg	0.00109 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		3.3	mg/kg		2.574	mg/kg	0.000257 %	✓	
22		fluoranthene		205-912-4	206-44-0		310	mg/kg		241.8	mg/kg	0.0242 %	✓	
23		fluorene		201-695-5	86-73-7		120	mg/kg		93.6	mg/kg	0.00936 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		47	mg/kg		36.66	mg/kg	0.00367 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	29	mg/kg		22.62	mg/kg	0.00226 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.7	mg/kg	1.353	1.795	mg/kg	0.000179 %	✓	
27		naphthalene	601-052-00-2	202-049-5	91-20-3		360	mg/kg		280.8	mg/kg	0.0281 %	✓	
28		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	35.728	mg/kg	0.00357 %	✓	
29		pH			PH		8.3	pH		8.3	pH	8.3 pH		
30		phenanthrene		201-581-5	85-01-8		510	mg/kg		397.8	mg/kg	0.0398 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		22	mg/kg		17.16	mg/kg	0.00172 %	✓	
32		pyrene		204-927-3	129-00-0		290	mg/kg		226.2	mg/kg	0.0226 %	✓	
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
35		toluene				5	mg/kg		3.9	mg/kg	0.00039 %	✓	
		601-021-00-3	203-625-9	108-88-3									
36		TPH (C6 to C40) petroleum group				3100	mg/kg		2418	mg/kg	0.242 %	✓	
				TPH									
37		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
38		xylene				35.8	mg/kg		27.924	mg/kg	0.00279 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
39		zinc { zinc oxide }				87	mg/kg	1.245	84.466	mg/kg	0.00845 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
40		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				5.4	mg/kg		4.212	mg/kg	0.000421 %	✓	
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				21	mg/kg	1.785	29.241	mg/kg	0.00292 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		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									
57		2,4,6-trichlorophenol											
		604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
58		2,4,5-trichlorophenol											
		604-017-00-X	202-467-8	95-95-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
59		2-methyl naphthalene											
			202-078-3	91-57-6		100	mg/kg		78	mg/kg	0.0078 %	✓	
60		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
61		dimethyl phthalate											
			205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
62		2,6-dinitrotoluene											
		609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]											
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
64		dibenzofuran											
			205-071-3	132-64-9		64	mg/kg		49.92	mg/kg	0.00499 %	✓	
65		4-chlorophenylphenylether											
			230-281-7	7005-72-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
66		diethyl phthalate											
			201-550-6	84-66-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]											
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
68		azobenzene											
		611-001-00-6	203-102-5	103-33-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
69		4-bromophenylphenylether											
			202-952-4	101-55-3		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
70		carbazole											
			201-696-0	86-74-8		32	mg/kg		24.96	mg/kg	0.0025 %	✓	
71		dibutyl phthalate; DBP											
		607-318-00-4	201-557-4	84-74-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
72		anthraquinone											
		606-151-00-4	201-549-0	84-65-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
73		BBP; benzyl butyl phthalate											
		607-430-00-3	201-622-7	85-68-7		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
74		1,1,1-trichloroethane; methyl chloroform											
		602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
75		1,1,2,2-tetrachloroethane											
		602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
76		1,1,2-trichloroethane											
		602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
77		1,1-dichloroethylene; vinylidene chloride											
		602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
78		1,1-dichloropropene											
		602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
79		1,2,3-trichlorobenzene											
			201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
80		1,2,4-trimethylbenzene											
		601-043-00-3	202-436-9	95-63-6		6	mg/kg		4.68	mg/kg	0.000468 %	✓	
81		1,2-dibromoethane											
		602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
82		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
83		1,2-dichloropropane; propylene dichloride											
		602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
84		1,3-dichlorbenzene											
		602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				0.24	mg/kg		0.187	mg/kg	0.0000187 %	✓	
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				2.1	mg/kg		1.638	mg/kg	0.000164 %	✓	
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
114		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-016-00-4	204-427-5	120-80-9									
115		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-037-00-9	203-606-5	108-68-9									
116		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-029-00-5	201-969-4	90-15-3									
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
118		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
119		cumene; [1] propylbenzene [2]				1.09	mg/kg		0.85	mg/kg	0.000085 %	✓	
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.48 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 0.00028%)
ethylbenzene: (conc.: 0.00025%)
toluene: (conc.: 0.00039%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.242%)
xylene: (conc.: 0.00279%)
1,2,4-trimethylbenzene: (conc.: 0.00046%)
4-isopropyltoluene: (conc.: 0.00001%)
mesitylene; 1,3,5-trimethylbenzene: (conc.: 0.00016%)
cumene; [1] propylbenzene [2]: (conc.: 0.00008%)

Classification of sample: TP11-2-14112021-0.65

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

Sample details

Sample name:
TP11-2-14112021-0.65
Moisture content:
11%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		67	mg/kg	1.32	78.731	mg/kg	0.00787 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
7		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
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		3.1	mg/kg	2.775	7.657	mg/kg	0.000766 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	7.172	mg/kg	0.000717 %	✓	
13		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
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26	mg/kg	1.462	33.82	mg/kg	0.00338 %	✓	
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
16		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<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
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		90	mg/kg	1.126	90.184	mg/kg	0.00902 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		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
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	24	mg/kg		21.36	mg/kg	0.00214 %	✓	
25		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
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		51	mg/kg	1.579	71.693	mg/kg	0.00717 %	✓	
28		pH			PH		6.5	pH		6.5	pH	6.5 pH		
29		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		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
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		31	mg/kg	1.245	34.342	mg/kg	0.00343 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		75	mg/kg	1.785	119.161	mg/kg	0.0119 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.0482 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP11-4-14112021-0.70

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

Sample details

Sample name:
TP11-4-14112021-0.70
Moisture content:
9.3%
(wet 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% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
2		magnesium { magnesium phosphide; trimagnesium diphosphide }				56	mg/kg	1.85	93.943	mg/kg	0.00939 %	✓	
		015-005-00-3	235-023-7	12057-74-8									
										Total:	0.00939 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: TP03-1-14112021-0.20

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

Sample details

Sample name:
TP03-1-14112021-0.20
Moisture content:
17%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	12.055 mg/kg	0.00121 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.26 mg/kg		0.216 mg/kg	0.0000216 %	✓	
6		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
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.67 mg/kg	2.775	1.543 mg/kg	0.000154 %	✓	
11		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
12		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	24.262 mg/kg	0.00243 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.22 mg/kg		0.183 mg/kg	0.0000183 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		44 mg/kg	1.126	41.117 mg/kg	0.00411 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		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
19		fluoranthene		205-912-4	206-44-0		0.46	mg/kg		0.382	mg/kg	0.0000382 %	✓	
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	65	mg/kg		53.95	mg/kg	0.0054 %	✓	
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.3	mg/kg	1.353	0.337	mg/kg	0.0000337 %	✓	
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		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	22.287	mg/kg	0.00223 %	✓	
26		pH			PH		7.7	pH		7.7	pH	7.7 pH		
27		phenanthrene		201-581-5	85-01-8		0.37	mg/kg		0.307	mg/kg	0.0000307 %	✓	
28		pyrene		204-927-3	129-00-0		0.46	mg/kg		0.382	mg/kg	0.0000382 %	✓	
29		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
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		66	mg/kg	1.245	68.185	mg/kg	0.00682 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	34.079	mg/kg	0.00341 %	✓	
											Total:	0.0269 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP03-2-14112021-0.50

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

Sample details

Sample name:
TP03-2-14112021-0.50
Moisture content:
8.6%
(wet 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: 8.6% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		0.53 mg/kg		0.484 mg/kg	0.0000484 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.9 mg/kg	1.32	7.12 mg/kg	0.000712 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.82 mg/kg		0.749 mg/kg	0.0000749 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.7 mg/kg		0.64 mg/kg	0.000064 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.68 mg/kg		0.622 mg/kg	0.0000622 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		0.4 mg/kg		0.366 mg/kg	0.0000366 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.4 mg/kg		0.366 mg/kg	0.0000366 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.89 mg/kg	2.775	2.258 mg/kg	0.000226 %	✓	
11		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
12		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29 mg/kg	1.462	38.74 mg/kg	0.00387 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.73 mg/kg		0.667 mg/kg	0.0000667 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.126	20.581 mg/kg	0.00206 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		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**
19		fluoranthene		205-912-4	206-44-0		1.7	mg/kg		1.554	mg/kg	0.000155 %	✓	
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
21		indeno[123-cd]pyrene		205-893-2	193-39-5		0.44	mg/kg		0.402	mg/kg	0.0000402 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	19	mg/kg		17.366	mg/kg	0.00174 %	✓	
23		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**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		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	37.535	mg/kg	0.00375 %	✓	
26		pH			PH		8	pH		8	pH	8pH		
27		phenanthrene		201-581-5	85-01-8		1.7	mg/kg		1.554	mg/kg	0.000155 %	✓	
28		pyrene		204-927-3	129-00-0		1.9	mg/kg		1.737	mg/kg	0.000174 %	✓	
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		45	mg/kg	1.245	51.195	mg/kg	0.00512 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		32	mg/kg	1.785	52.213	mg/kg	0.00522 %	✓	
											Total:	0.0246 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP03-5-14112021-2.50

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

Sample details

Sample name:
TP03-5-14112021-2.50
Moisture content:
9%
(wet 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% Wet 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		pH			PH		7.4 pH		7.4 pH	7.4 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		34 mg/kg	1.85	57.226 mg/kg	0.00572 %	✓	
									Total:	0.00572 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: TP20-1-14112021-0.20

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

Sample details

Sample name:
TP20-1-14112021-0.20
Moisture content:
15%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		6.6	mg/kg		5.61	mg/kg	0.000561 %	✓	
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		12	mg/kg		10.2	mg/kg	0.00102 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		44	mg/kg	1.32	49.38	mg/kg	0.00494 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		33	mg/kg		28.05	mg/kg	0.00281 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		23	mg/kg		19.55	mg/kg	0.00196 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		28	mg/kg		23.8	mg/kg	0.00238 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		15	mg/kg		12.75	mg/kg	0.00128 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		12	mg/kg		10.2	mg/kg	0.00102 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.6	mg/kg	2.775	3.774	mg/kg	0.000377 %	✓	
11		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**
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		56	mg/kg	1.462	69.57	mg/kg	0.00696 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		23	mg/kg		19.55	mg/kg	0.00196 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		490	mg/kg	1.126	468.932	mg/kg	0.0469 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				4.2	mg/kg		3.57	mg/kg	0.000357 %	✓	
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				65	mg/kg		55.25	mg/kg	0.00553 %	✓	
			205-912-4	206-44-0									
20		fluorene				4.2	mg/kg		3.57	mg/kg	0.000357 %	✓	
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				13	mg/kg		11.05	mg/kg	0.00111 %	✓	
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	430	mg/kg		365.5	mg/kg	0.0366 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				80	mg/kg	1.579	107.406	mg/kg	0.0107 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
27		phenanthrene				37	mg/kg		31.45	mg/kg	0.00314 %	✓	
			201-581-5	85-01-8									
28		pyrene				61	mg/kg		51.85	mg/kg	0.00519 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				440	mg/kg	1.245	465.523	mg/kg	0.0466 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				47	mg/kg	1.785	71.318	mg/kg	0.00713 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.19 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP20-2-14112021-0.80

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

Sample details

Sample name:
TP20-2-14112021-0.80
Moisture content:
2.6%
(wet 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: 2.6% Wet 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		pH			PH		8.6 pH		8.6 pH	8.6 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		<5 mg/kg	1.85	<9.248 mg/kg	<0.000925 %		<**LOD**
									Total:	0.00092 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected

Classification of sample: TP20-3-19112021-0.90

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

Sample details

Sample name:
TP20-3-19112021-0.90
Moisture content:
20%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		2.2 mg/kg		1.76 mg/kg	0.000176 %	✓	
3		acenaphthylene		205-917-1	208-96-8		0.6 mg/kg		0.48 mg/kg	0.000048 %	✓	
4		anthracene		204-371-1	120-12-7		13 mg/kg		10.4 mg/kg	0.00104 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		40 mg/kg	1.32	42.25 mg/kg	0.00423 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		23 mg/kg		18.4 mg/kg	0.00184 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		16 mg/kg		12.8 mg/kg	0.00128 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		19 mg/kg		15.2 mg/kg	0.00152 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		10 mg/kg		8 mg/kg	0.0008 %	✓	
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		11 mg/kg		8.8 mg/kg	0.00088 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		2.7 mg/kg	2.775	5.995 mg/kg	0.000599 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.372 mg/kg	0.000537 %	✓	
14		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**
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	32.739 mg/kg	0.00327 %	✓	

#		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
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
17		chrysene	601-048-00-0	205-923-4	218-01-9		19	mg/kg		15.2	mg/kg	0.00152 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		82	mg/kg	1.126	73.858	mg/kg	0.00739 %	✓	
19		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**
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		2.7	mg/kg		2.16	mg/kg	0.000216 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
22		fluoranthene		205-912-4	206-44-0		41	mg/kg		32.8	mg/kg	0.00328 %	✓	
23		fluorene		201-695-5	86-73-7		3.1	mg/kg		2.48	mg/kg	0.000248 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		8.9	mg/kg		7.12	mg/kg	0.000712 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	33	mg/kg		26.4	mg/kg	0.00264 %	✓	
26		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**
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<**LOD**
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		54	mg/kg	1.579	68.234	mg/kg	0.00682 %	✓	
29		pH			PH		8	pH		8	pH	8pH		
30		phenanthrene		201-581-5	85-01-8		22	mg/kg		17.6	mg/kg	0.00176 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
32		pyrene		204-927-3	129-00-0		34	mg/kg		27.2	mg/kg	0.00272 %	✓	
33		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**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
36		TPH (C6 to C40) petroleum group			TPH		400	mg/kg		320	mg/kg	0.032 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		58	mg/kg	1.245	57.755	mg/kg	0.00578 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				68	mg/kg	1.785	97.114	mg/kg	0.00971 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
57		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
58		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
59		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
60		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
61		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
62		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									

#		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
64	●	dibenzofuran		205-071-3	132-64-9		1.4	mg/kg		1.12	mg/kg	0.000112 %	✓	
65	●	4-chlorophenylphenylether		230-281-7	7005-72-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
66	●	diethyl phthalate		201-550-6	84-66-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
68		azobenzene	611-001-00-6	203-102-5	103-33-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
69	●	4-bromophenylphenylether		202-952-4	101-55-3		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
70	●	carbazole		201-696-0	86-74-8		0.9	mg/kg		0.72	mg/kg	0.000072 %	✓	
71		dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
72		anthraquinone	606-151-00-4	201-549-0	84-65-1		0.5	mg/kg		0.4	mg/kg	0.00004 %	✓	
73		BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
74		1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
75		1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
76		1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
77		1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
78		1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
79	●	1,2,3-trichlorobenzene		201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
80		1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
81		1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
82		1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
83		1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
84		1,3-dichlorbenzene	602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
85	●	1,3-dichloropropane		205-531-3	142-28-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
86		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
87	●	2,2-dichloropropane		209-832-0	594-20-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
88	●	bromodichloromethane		200-856-7	75-27-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
89		bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
90		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
91	●	n-butylbenzene		203-209-7	104-51-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0925 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.032%)

Classification of sample: TP20-4-19112021-1.40

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

Sample details

Sample name:
TP20-4-19112021-1.40
Moisture content:
24%
(wet 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.: 0.175%)

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.: 0.175%)

Determinands

Moisture content: 24% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		**<LOD**
2		acenaphthene		201-469-6	83-32-9		7.7 mg/kg		5.852 mg/kg	0.000585 %	✓	
3		acenaphthylene		205-917-1	208-96-8		6 mg/kg		4.56 mg/kg	0.000456 %	✓	
4		anthracene		204-371-1	120-12-7		35 mg/kg		26.6 mg/kg	0.00266 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		48 mg/kg	1.32	48.165 mg/kg	0.00482 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		**<LOD**
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		89 mg/kg		67.64 mg/kg	0.00676 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		96 mg/kg		72.96 mg/kg	0.0073 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		97 mg/kg		73.72 mg/kg	0.00737 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		68 mg/kg		51.68 mg/kg	0.00517 %	✓	

#		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
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		39	mg/kg		29.64	mg/kg	0.00296 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.8	mg/kg	2.775	3.797	mg/kg	0.00038 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.8	mg/kg	13.43	8.165	mg/kg	0.000817 %	✓	
14		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
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23	mg/kg	1.462	25.548	mg/kg	0.00255 %	✓	
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		80	mg/kg		60.8	mg/kg	0.00608 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		160	mg/kg	1.126	136.908	mg/kg	0.0137 %	✓	
19		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
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		14	mg/kg		10.64	mg/kg	0.00106 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		170	mg/kg		129.2	mg/kg	0.0129 %	✓	
23		fluorene		201-695-5	86-73-7		12	mg/kg		9.12	mg/kg	0.000912 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		53	mg/kg		40.28	mg/kg	0.00403 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	140	mg/kg		106.4	mg/kg	0.0106 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.5	mg/kg	1.353	0.514	mg/kg	0.0000514 %	✓	
27		naphthalene	601-052-00-2	202-049-5	91-20-3		16	mg/kg		12.16	mg/kg	0.00122 %	✓	
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		48	mg/kg	1.579	57.62	mg/kg	0.00576 %	✓	
29		pH			PH		7.9	pH		7.9	pH	7.9 pH		
30		phenanthrene		201-581-5	85-01-8		130	mg/kg		98.8	mg/kg	0.00988 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		pyrene		204-927-3	129-00-0		180	mg/kg		136.8	mg/kg	0.0137 %	✓	
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<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
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36		TPH (C6 to C40) petroleum group			TPH		2300	mg/kg		1748	mg/kg	0.175 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		190	mg/kg	1.245	179.737	mg/kg	0.018 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
42		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
43		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		53	mg/kg	1.785	71.907	mg/kg	0.00719 %	✓	
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
45		aniline	612-008-00-7	200-539-3	62-53-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
47		bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
48		hexachloroethane		200-666-4	67-72-1		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
49		nitrobenzene	609-003-00-7	202-716-0	98-95-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
50		3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0	78-59-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
51		2-nitrophenol		201-857-5	88-75-5		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
53		bis(2-chloroethoxy)methane		203-920-2	111-91-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
54		2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
55		4-chloroaniline	612-137-00-9	203-401-0	106-47-8		7.6	mg/kg		5.776	mg/kg	0.000578 %	✓	
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
57		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
58		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
59		2-methyl naphthalene				5.4	mg/kg		4.104	mg/kg	0.00041 %	✓	
			202-078-3	91-57-6									
60		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
61		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
62		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
64		dibenzofuran				6	mg/kg		4.56	mg/kg	0.000456 %	✓	
			205-071-3	132-64-9									
65		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70		carbazole				9.7	mg/kg		7.372	mg/kg	0.000737 %	✓	
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
114		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-016-00-4	204-427-5	120-80-9									
115		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-037-00-9	203-606-5	108-68-9									
116		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-029-00-5	201-969-4	90-15-3									
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
118		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
119		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.325 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.175%)

Classification of sample: TP20-7-19112021-1.75

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

Sample details

Sample name:
TP20-7-19112021-1.75
Moisture content:
17%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		2.2 mg/kg		1.826 mg/kg	0.000183 %	✓	
3		acenaphthylene		205-917-1	208-96-8		2.3 mg/kg		1.909 mg/kg	0.000191 %	✓	
4		anthracene		204-371-1	120-12-7		6.5 mg/kg		5.395 mg/kg	0.00054 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	13.15 mg/kg	0.00132 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		0.0055 mg/kg		0.0045 mg/kg	0.000000456 %	✓	
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		13 mg/kg		10.79 mg/kg	0.00108 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		12 mg/kg		9.96 mg/kg	0.000996 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		11 mg/kg		9.13 mg/kg	0.000913 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		8.8 mg/kg		7.304 mg/kg	0.00073 %	✓	
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		6.4 mg/kg		5.312 mg/kg	0.000531 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.225 mg/kg	0.000322 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5 mg/kg	13.43	5.573 mg/kg	0.000557 %	✓	
14		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.7 mg/kg	1.285	0.747 mg/kg	0.0000581 %	✓	
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30 mg/kg	1.462	36.393 mg/kg	0.00364 %	✓	

#		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
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
17		chrysene	601-048-00-0	205-923-4	218-01-9		9.5	mg/kg		7.885	mg/kg	0.000789 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		49	mg/kg	1.126	45.79	mg/kg	0.00458 %	✓	
19		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**
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1.7	mg/kg		1.411	mg/kg	0.000141 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.0048	mg/kg		0.0039	mg/kg	0.000000398 %	✓	
22		fluoranthene		205-912-4	206-44-0		23	mg/kg		19.09	mg/kg	0.00191 %	✓	
23		fluorene		201-695-5	86-73-7		3.5	mg/kg		2.905	mg/kg	0.000291 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		6.7	mg/kg		5.561	mg/kg	0.000556 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	23	mg/kg		19.09	mg/kg	0.00191 %	✓	
26		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**
27		naphthalene	601-052-00-2	202-049-5	91-20-3		8.7	mg/kg		7.221	mg/kg	0.000722 %	✓	
28		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	56.372	mg/kg	0.00564 %	✓	
29		pH			PH		8.2	pH		8.2	pH	8.2 pH		
30		phenanthrene		201-581-5	85-01-8		24	mg/kg		19.92	mg/kg	0.00199 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
32		pyrene		204-927-3	129-00-0		25	mg/kg		20.75	mg/kg	0.00208 %	✓	
33		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**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
35		toluene	601-021-00-3	203-625-9	108-88-3		0.0054	mg/kg		0.0044	mg/kg	0.000000448 %	✓	
36		TPH (C6 to C40) petroleum group			TPH		220	mg/kg		182.6	mg/kg	0.0183 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.05	mg/kg		0.0415	mg/kg	0.00000415 %	✓	
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		240	mg/kg	1.245	247.947	mg/kg	0.0248 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
42		monohydric phenols											
				P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
43		vanadium { divanadium pentaoxide; vanadium pentoxide }											
		023-001-00-8	215-239-8	1314-62-1		34	mg/kg	1.785	50.378	mg/kg	0.00504 %	✓	
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane											
		603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
45		aniline											
		612-008-00-7	200-539-3	62-53-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]											
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
47		bis(2-chloroethyl) ether											
		603-029-00-2	203-870-1	111-44-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
48		hexachloroethane											
			200-666-4	67-72-1		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
49		nitrobenzene											
		609-003-00-7	202-716-0	98-95-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
50		3,5,5-trimethylcyclohex-2-enone; isophorone											
		606-012-00-8	201-126-0	78-59-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
51		2-nitrophenol											
			201-857-5	88-75-5		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]											
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
53		bis(2-chloroethoxy)methane											
			203-920-2	111-91-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
54		2,4-dichlorophenol											
		604-011-00-7	204-429-6	120-83-2		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
55		4-chloroaniline											
		612-137-00-9	203-401-0	106-47-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol											
		604-014-00-3	200-431-6	59-50-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
57		2,4,6-trichlorophenol											
		604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
58		2,4,5-trichlorophenol											
		604-017-00-X	202-467-8	95-95-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
59		2-methyl naphthalene											
			202-078-3	91-57-6		3.8	mg/kg		3.154	mg/kg	0.000315 %	✓	
60		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
61		dimethyl phthalate											
			205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
62		2,6-dinitrotoluene											
		609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]											
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**

#		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									
64	●	dibenzofuran				1.5	mg/kg		1.245	mg/kg	0.000125 %	✓	
			205-071-3	132-64-9									
65	●	4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66	●	diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69	●	4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70	●	carbazole				1.8	mg/kg		1.494	mg/kg	0.000149 %	✓	
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				0.4	mg/kg		0.332	mg/kg	0.0000332 %	✓	
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79	●	1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				0.023	mg/kg		0.0191	mg/kg	0.00000191 %	✓	
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
85	●	1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87	●	2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88	●	bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91	●	n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				0.0091	mg/kg		0.0075	mg/kg	0.000000755 %	✓	
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				0.0039	mg/kg		0.0032	mg/kg	0.000000324 %	✓	
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0816 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 4.57e-07%)
ethylbenzene: (conc.: 3.98e-07%)
toluene: (conc.: 4.48e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0183%)
xylene: (conc.: 4.15e-06%)
1,2,4-trimethylbenzene: (conc.: 1.91e-06%)
mesitylene; 1,3,5-trimethylbenzene: (conc.: 7.55e-07%)
cumene; [1] propylbenzene [2]: (conc.: 3.24e-07%)

Classification of sample: WS04-2-17112021-0.20

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

Sample details

Sample name:
WS04-2-17112021-0.20
Moisture content:
15%
(wet 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% Wet 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		pH			PH		8.9 pH		8.9 pH	8.9 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		8.1 mg/kg	1.85	12.734 mg/kg	0.00127 %	✓	
									Total:	0.00127 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: WS04-3-17112021-0.20

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

Sample details

Sample name:
WS04-3-17112021-0.20
Moisture content:
27%
(wet 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.: 0.475%)

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.: 0.475%)

Determinands

Moisture content: 27% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		49 mg/kg		35.77 mg/kg	0.00358 %	✓	
3		acenaphthylene		205-917-1	208-96-8		110 mg/kg		80.3 mg/kg	0.00803 %	✓	
4		anthracene		204-371-1	120-12-7		140 mg/kg		102.2 mg/kg	0.0102 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		74 mg/kg	1.32	71.324 mg/kg	0.00713 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		0.02 mg/kg		0.0146 mg/kg	0.00000146 %	✓	
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		380 mg/kg		277.4 mg/kg	0.0277 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		350 mg/kg		255.5 mg/kg	0.0256 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		310 mg/kg		226.3 mg/kg	0.0226 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		280 mg/kg		204.4 mg/kg	0.0204 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
11		benzo[k]fluoranthene				170	mg/kg		124.1	mg/kg	0.0124 %	✓	
		601-036-00-5	205-916-6	207-08-9									
12		beryllium { beryllium oxide }				0.54	mg/kg	2.775	1.094	mg/kg	0.000109 %	✓	
		004-003-00-8	215-133-1	1304-56-9									
13		boron { boron tribromide/trichloride/trifluoride (combined) }				0.4	mg/kg	13.43	3.922	mg/kg	0.000392 %	✓	
				10294-33-4, 10294-34-5, 7637-07-2									
14		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19	mg/kg	1.462	20.272	mg/kg	0.00203 %	✓	
			215-160-9	1308-38-9									
16		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
17		chrysene				360	mg/kg		262.8	mg/kg	0.0263 %	✓	
		601-048-00-0	205-923-4	218-01-9									
18		copper { dicopper oxide; copper (I) oxide }				62	mg/kg	1.126	50.958	mg/kg	0.0051 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
20		dibenz[a,h]anthracene				86	mg/kg		62.78	mg/kg	0.00628 %	✓	
		601-041-00-2	200-181-8	53-70-3									
21		ethylbenzene				0.017	mg/kg		0.0124	mg/kg	0.00000124 %	✓	
		601-023-00-4	202-849-4	100-41-4									
22		fluoranthene				600	mg/kg		438	mg/kg	0.0438 %	✓	
			205-912-4	206-44-0									
23		fluorene				90	mg/kg		65.7	mg/kg	0.00657 %	✓	
			201-695-5	86-73-7									
24		indeno[123-cd]pyrene				180	mg/kg		131.4	mg/kg	0.0131 %	✓	
			205-893-2	193-39-5									
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	82	mg/kg		59.86	mg/kg	0.00599 %	✓	
		082-001-00-6											
26		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
27		naphthalene				42	mg/kg		30.66	mg/kg	0.00307 %	✓	
		601-052-00-2	202-049-5	91-20-3									
28		nickel { nickel dihydroxide }				33	mg/kg	1.579	38.05	mg/kg	0.00381 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
29		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
30		phenanthrene				700	mg/kg		511	mg/kg	0.0511 %	✓	
			201-581-5	85-01-8									
31		phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		pyrene				670	mg/kg		489.1	mg/kg	0.0489 %	✓	
			204-927-3	129-00-0									
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
34		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
35		toluene				0.095	mg/kg		0.0694	mg/kg	0.00000694 %	✓	
		601-021-00-3	203-625-9	108-88-3									
36		TPH (C6 to C40) petroleum group				6500	mg/kg		4745	mg/kg	0.475 %	✓	
				TPH									
37		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
38		xylene				0.426	mg/kg		0.311	mg/kg	0.0000311 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
39		zinc { zinc oxide }				55	mg/kg	1.245	49.975	mg/kg	0.005 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
40		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
43		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
44		vanadium { divanadium pentaoxide; vanadium pentoxide }				30	mg/kg	1.785	39.096	mg/kg	0.00391 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
45		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
46		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
47		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
48		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
49		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
50		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
51		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
52		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
53		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
54		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
55		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
56		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
57		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
58		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
59		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
60		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
61		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
62		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
63		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
64		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
65		dibenzofuran				61	mg/kg		44.53	mg/kg	0.00445 %	✓	
			205-071-3	132-64-9									
66		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
67		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
68		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
69		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
70		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
71		carbazole				62	mg/kg		45.26	mg/kg	0.00453 %	✓	
			201-696-0	86-74-8									
72		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
73		anthraquinone				50	mg/kg		36.5	mg/kg	0.00365 %	✓	
		606-151-00-4	201-549-0	84-65-1									
74		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
75		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
76		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
77		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
78		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
79		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
80		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
81		1,2,4-trimethylbenzene				0.15	mg/kg		0.109	mg/kg	0.0000109 %	✓	
		601-043-00-3	202-436-9	95-63-6									
82		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
83		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
84		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
85		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
86		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
87		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
88		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
89		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
90		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
91		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
92		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
93		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
94		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
95		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
96		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
97		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
98		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
99		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
100		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
101		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
102		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
103		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
104		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
105		styrene				0.039	mg/kg		0.0285	mg/kg	0.00000285 %	✓	
		601-026-00-0	202-851-5	100-42-5									
106		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
107		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
108		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
109		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
110		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
111		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
112		mesitylene; 1,3,5-trimethylbenzene				0.087	mg/kg		0.0635	mg/kg	0.00000635 %	✓	
		601-025-00-5	203-604-4	108-67-8									
113		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
114		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
115		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
116		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.853 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 1.46e-06%)
ethylbenzene: (conc.: 1.24e-06%)
toluene: (conc.: 6.94e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.475%)
xylene: (conc.: 0.00003%)
1,2,4-trimethylbenzene: (conc.: 0.00001%)
styrene: (conc.: 2.85e-06%)
mesitylene; 1,3,5-trimethylbenzene: (conc.: 6.35e-06%)

Classification of sample: WS02-1-17112021-0.70

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

Sample details

Sample name:
WS02-1-17112021-0.70
Moisture content:
12%
(wet 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.: 0.185%)

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.: 0.185%)

Determinands

Moisture content: 12% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		7.7 mg/kg		6.776 mg/kg	0.000678 %	✓	
3		acenaphthylene		205-917-1	208-96-8		5.9 mg/kg		5.192 mg/kg	0.000519 %	✓	
4		anthracene		204-371-1	120-12-7		25 mg/kg		22 mg/kg	0.0022 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		31 mg/kg	1.32	36.018 mg/kg	0.0036 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		100 mg/kg		88 mg/kg	0.0088 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		120 mg/kg		105.6 mg/kg	0.0106 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		110 mg/kg		96.8 mg/kg	0.00968 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		75 mg/kg		66 mg/kg	0.0066 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
11		benzo[k]fluoranthene				43	mg/kg		37.84	mg/kg	0.00378 %	✓	
		601-036-00-5	205-916-6	207-08-9									
12		beryllium { beryllium oxide }				1.2	mg/kg	2.775	2.931	mg/kg	0.000293 %	✓	
		004-003-00-8	215-133-1	1304-56-9									
13		boron { boron tribromide/trichloride/trifluoride (combined) }				0.2	mg/kg	13.43	2.364	mg/kg	0.000236 %	✓	
				10294-33-4, 10294-34-5, 7637-07-2									
14		cadmium { cadmium sulfide }			1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
		048-010-00-4	215-147-8	1306-23-6									
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21	mg/kg	1.462	27.01	mg/kg	0.0027 %	✓	
			215-160-9	1308-38-9									
16		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
17		chrysene				88	mg/kg		77.44	mg/kg	0.00774 %	✓	
		601-048-00-0	205-923-4	218-01-9									
18		copper { dicopper oxide; copper (I) oxide }				64	mg/kg	1.126	63.41	mg/kg	0.00634 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
20		dibenz[a,h]anthracene				24	mg/kg		21.12	mg/kg	0.00211 %	✓	
		601-041-00-2	200-181-8	53-70-3									
21		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		fluoranthene				130	mg/kg		114.4	mg/kg	0.0114 %	✓	
			205-912-4	206-44-0									
23		fluorene				9.9	mg/kg		8.712	mg/kg	0.000871 %	✓	
			201-695-5	86-73-7									
24		indeno[123-cd]pyrene				61	mg/kg		53.68	mg/kg	0.00537 %	✓	
			205-893-2	193-39-5									
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	88	mg/kg		77.44	mg/kg	0.00774 %	✓	
		082-001-00-6											
26		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
27		naphthalene				4.2	mg/kg		3.696	mg/kg	0.00037 %	✓	
		601-052-00-2	202-049-5	91-20-3									
28		nickel { nickel dihydroxide }				37	mg/kg	1.579	51.429	mg/kg	0.00514 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
29		pH				6.7	pH		6.7	pH	6.7 pH		
				PH									
30		phenanthrene				95	mg/kg		83.6	mg/kg	0.00836 %	✓	
			201-581-5	85-01-8									
31		phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		pyrene				150	mg/kg		132	mg/kg	0.0132 %	✓	
			204-927-3	129-00-0									
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
34		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
35		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
36		TPH (C6 to C40) petroleum group				2100	mg/kg		1848	mg/kg	0.185 %	✓	
				TPH									
37		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
38		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
39		zinc { zinc oxide }				89	mg/kg	1.245	97.486	mg/kg	0.00975 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
40		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				33	mg/kg	1.785	51.842	mg/kg	0.00518 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		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									
57		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
58		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
59		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
60		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
61		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
62		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
64		dibenzofuran				4.8	mg/kg		4.224	mg/kg	0.000422 %	✓	
			205-071-3	132-64-9									
65		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70		carbazole				8.6	mg/kg		7.568	mg/kg	0.000757 %	✓	
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				6.3	mg/kg		5.544	mg/kg	0.000554 %	✓	
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
115		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
								Total:	0.321 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.185%)

Classification of sample: TP15-1-17112021-0.75

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

Sample details

Sample name:
TP15-1-17112021-0.75
Moisture content:
17%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		1.7	mg/kg		1.411	mg/kg	0.000141 %	✓	
2		acenaphthylene		205-917-1	208-96-8		1.2	mg/kg		0.996	mg/kg	0.0000996 %	✓	
3		anthracene		204-371-1	120-12-7		9.1	mg/kg		7.553	mg/kg	0.000755 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		44	mg/kg	1.32	48.218	mg/kg	0.00482 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		34	mg/kg		28.22	mg/kg	0.00282 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		28	mg/kg		23.24	mg/kg	0.00232 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		36	mg/kg		29.88	mg/kg	0.00299 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		17	mg/kg		14.11	mg/kg	0.00141 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		14	mg/kg		11.62	mg/kg	0.00116 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.84	mg/kg	2.775	1.935	mg/kg	0.000193 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.7	mg/kg	13.43	18.95	mg/kg	0.00189 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17	mg/kg	1.462	20.623	mg/kg	0.00206 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		**<LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		25	mg/kg		20.75	mg/kg	0.00208 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		44	mg/kg	1.126	41.117	mg/kg	0.00411 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				4.4	mg/kg		3.652	mg/kg	0.000365 %	✓	
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				63	mg/kg		52.29	mg/kg	0.00523 %	✓	
			205-912-4	206-44-0									
20		fluorene				1.5	mg/kg		1.245	mg/kg	0.000125 %	✓	
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				16	mg/kg		13.28	mg/kg	0.00133 %	✓	
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	68	mg/kg		56.44	mg/kg	0.00564 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				26	mg/kg	1.579	34.086	mg/kg	0.00341 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
27		phenanthrene				16	mg/kg		13.28	mg/kg	0.00133 %	✓	
			201-581-5	85-01-8									
28		pyrene				56	mg/kg		46.48	mg/kg	0.00465 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				96	mg/kg	1.245	99.179	mg/kg	0.00992 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		asbestos				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
32		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
33		vanadium { divanadium pentaoxide; vanadium pentoxide }				29	mg/kg	1.785	42.969	mg/kg	0.0043 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0649 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP15-3-17112021-0.90

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

Sample details

Sample name:
TP15-3-17112021-0.90
Moisture content:
11%
(wet 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% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		pH				8	pH		8	pH	8pH		
				PH									
2		magnesium { magnesium phosphide; trimagnesium diphosphide }				33	mg/kg	1.85	54.322	mg/kg	0.00543 %	✓	
		015-005-00-3	235-023-7	12057-74-8									
										Total:	0.00543 %		

Key

	User supplied data
	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
	This determinand is defined in the EU CLP Table 3

Classification of sample: TP15-4-17112021-1.25

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

Sample details

Sample name:
TP15-4-17112021-1.25
Moisture content:
15%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		0.55	mg/kg		0.468	mg/kg	0.0000468 %	✓	
2		acenaphthylene		205-917-1	208-96-8		0.71	mg/kg		0.603	mg/kg	0.0000603 %	✓	
3		anthracene		204-371-1	120-12-7		1.9	mg/kg		1.615	mg/kg	0.000162 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.8	mg/kg	1.32	8.754	mg/kg	0.000875 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.8	mg/kg		2.38	mg/kg	0.000238 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.4	mg/kg		2.04	mg/kg	0.000204 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.5	mg/kg		2.125	mg/kg	0.000213 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		1.5	mg/kg		1.275	mg/kg	0.000127 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.2	mg/kg	2.775	2.831	mg/kg	0.000283 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	6.849	mg/kg	0.000685 %	✓	
13		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**
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31	mg/kg	1.462	38.512	mg/kg	0.00385 %	✓	
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
16		chrysene	601-048-00-0	205-923-4	218-01-9		2.8	mg/kg		2.38	mg/kg	0.000238 %	✓	

#		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
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38	mg/kg	1.126	36.366	mg/kg	0.00364 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.39	mg/kg		0.331	mg/kg	0.0000331 %	✓	
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		5.6	mg/kg		4.76	mg/kg	0.000476 %	✓	
22		fluorene		201-695-5	86-73-7		1.2	mg/kg		1.02	mg/kg	0.000102 %	✓	
23		indeno[123-cd]pyrene		205-893-2	193-39-5		1.3	mg/kg		1.105	mg/kg	0.000111 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13	mg/kg		11.05	mg/kg	0.00111 %	✓	
25		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
26		naphthalene	601-052-00-2	202-049-5	91-20-3		3	mg/kg		2.55	mg/kg	0.000255 %	✓	
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		34	mg/kg	1.579	45.648	mg/kg	0.00456 %	✓	
28		pH			PH		8.5	pH		8.5	pH	8.5 pH		
29		phenanthrene		201-581-5	85-01-8		7.1	mg/kg		6.035	mg/kg	0.000603 %	✓	
30		pyrene		204-927-3	129-00-0		6.4	mg/kg		5.44	mg/kg	0.000544 %	✓	
31		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
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		52	mg/kg		44.2	mg/kg	0.00442 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		69	mg/kg	1.245	73.002	mg/kg	0.0073 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		33	mg/kg	1.785	50.074	mg/kg	0.00501 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.036 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00442%)

Classification of sample: TP10-1-17112021-0.80

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

Sample details

Sample name:
TP10-1-17112021-0.80
Moisture content:
11%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		3.1	mg/kg		2.759	mg/kg	0.000276 %	✓	
2		acenaphthylene		205-917-1	208-96-8		0.7	mg/kg		0.623	mg/kg	0.0000623 %	✓	
3		anthracene		204-371-1	120-12-7		6.4	mg/kg		5.696	mg/kg	0.00057 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		45	mg/kg	1.32	52.879	mg/kg	0.00529 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		40	mg/kg		35.6	mg/kg	0.00356 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		38	mg/kg		33.82	mg/kg	0.00338 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		43	mg/kg		38.27	mg/kg	0.00383 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		21	mg/kg		18.69	mg/kg	0.00187 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		17	mg/kg		15.13	mg/kg	0.00151 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.88	mg/kg	2.775	2.174	mg/kg	0.000217 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3	mg/kg	13.43	3.586	mg/kg	0.000359 %	✓	
12		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20	mg/kg	1.462	26.016	mg/kg	0.0026 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		35	mg/kg		31.15	mg/kg	0.00311 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		46	mg/kg	1.126	46.094	mg/kg	0.00461 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		dibenz[a,h]anthracene				5.3	mg/kg		4.717	mg/kg	0.000472 %	✓	
		601-041-00-2	200-181-8	53-70-3									
19		fluoranthene				71	mg/kg		63.19	mg/kg	0.00632 %	✓	
			205-912-4	206-44-0									
20		fluorene				1.4	mg/kg		1.246	mg/kg	0.000125 %	✓	
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				18	mg/kg		16.02	mg/kg	0.0016 %	✓	
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	79	mg/kg		70.31	mg/kg	0.00703 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				0.48	mg/kg		0.427	mg/kg	0.0000427 %	✓	
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				30	mg/kg	1.579	42.173	mg/kg	0.00422 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				10.2	pH		10.2	pH	10.2 pH		
				PH									
27		phenanthrene				25	mg/kg		22.25	mg/kg	0.00223 %	✓	
			201-581-5	85-01-8									
28		pyrene				65	mg/kg		57.85	mg/kg	0.00579 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				110	mg/kg	1.245	121.857	mg/kg	0.0122 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				31	mg/kg	1.785	49.253	mg/kg	0.00493 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0769 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP10-2-17112021-0.90

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

Sample details

Sample name:
TP10-2-17112021-0.90
Moisture content:
9.6%
(wet 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: 9.6% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		pH				11.2	pH		11.2	pH	11.2 pH		
				PH									
2		magnesium { magnesium phosphide; trimagnesium diphosphide }				<5	mg/kg	1.85	<9.248	mg/kg	<0.000925 %		<**LOD**
		015-005-00-3	235-023-7	12057-74-8									
										Total:	0.00092 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected

Classification of sample: WS04-7-22112021-1.20

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

Sample details

Sample name:
WS04-7-22112021-1.20
Moisture content:
9.3%
(wet 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.: 0.408%)

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.: 0.408%)

Determinands

Moisture content: 9.3% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		**<LOD**
2		acenaphthene		201-469-6	83-32-9		57 mg/kg		51.699 mg/kg	0.00517 %	✓	
3		acenaphthylene		205-917-1	208-96-8		65 mg/kg		58.955 mg/kg	0.0059 %	✓	
4		anthracene		204-371-1	120-12-7		120 mg/kg		108.84 mg/kg	0.0109 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		170 mg/kg	1.32	203.581 mg/kg	0.0204 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		0.55 mg/kg		0.499 mg/kg	0.0000499 %	✓	
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		200 mg/kg		181.4 mg/kg	0.0181 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		160 mg/kg		145.12 mg/kg	0.0145 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		190 mg/kg		172.33 mg/kg	0.0172 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		100 mg/kg		90.7 mg/kg	0.00907 %	✓	

#		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
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		42	mg/kg		38.094	mg/kg	0.00381 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.47	mg/kg	2.775	1.183	mg/kg	0.000118 %	✓	
13		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
14		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
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		12	mg/kg	1.462	15.908	mg/kg	0.00159 %	✓	
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		150	mg/kg		136.05	mg/kg	0.0136 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		71	mg/kg	1.126	72.504	mg/kg	0.00725 %	✓	
19		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
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		29	mg/kg		26.303	mg/kg	0.00263 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		450	mg/kg		408.15	mg/kg	0.0408 %	✓	
23		fluorene		201-695-5	86-73-7		110	mg/kg		99.77	mg/kg	0.00998 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		89	mg/kg		80.723	mg/kg	0.00807 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	62	mg/kg		56.234	mg/kg	0.00562 %	✓	
26		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
27		naphthalene	601-052-00-2	202-049-5	91-20-3		240	mg/kg		217.68	mg/kg	0.0218 %	✓	
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		33	mg/kg	1.579	47.276	mg/kg	0.00473 %	✓	
29		pH			PH		7.4	pH		7.4	pH	7.4 pH		
30		phenanthrene		201-581-5	85-01-8		580	mg/kg		526.06	mg/kg	0.0526 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		14	mg/kg		12.698	mg/kg	0.00127 %	✓	
32		pyrene		204-927-3	129-00-0		460	mg/kg		417.22	mg/kg	0.0417 %	✓	
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		0.033	mg/kg		0.0299	mg/kg	0.00000299 %	✓	

#		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									
35		toluene				1.2	mg/kg		1.088	mg/kg	0.000109 %	✓	
		601-021-00-3	203-625-9	108-88-3									
36		TPH (C6 to C40) petroleum group				4500	mg/kg		4081.5	mg/kg	0.408 %	✓	
				TPH									
37		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
38		xylene				0.54	mg/kg		0.49	mg/kg	0.000049 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
39		zinc { zinc oxide }				39	mg/kg	1.245	44.029	mg/kg	0.0044 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
40		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				64	mg/kg		58.048	mg/kg	0.0058 %	✓	
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				40	mg/kg	1.785	64.767	mg/kg	0.00648 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				140	mg/kg		126.98	mg/kg	0.0127 %	✓	
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		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									
57		2,4,6-trichlorophenol											
		604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
58		2,4,5-trichlorophenol											
		604-017-00-X	202-467-8	95-95-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
59		2-methyl naphthalene											
			202-078-3	91-57-6		130	mg/kg		117.91	mg/kg	0.0118 %	✓	
60		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
61		dimethyl phthalate											
			205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
62		2,6-dinitrotoluene											
		609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]											
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
64		dibenzofuran											
			205-071-3	132-64-9		56	mg/kg		50.792	mg/kg	0.00508 %	✓	
65		4-chlorophenylphenylether											
			230-281-7	7005-72-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
66		diethyl phthalate											
			201-550-6	84-66-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]											
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
68		azobenzene											
		611-001-00-6	203-102-5	103-33-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
69		4-bromophenylphenylether											
			202-952-4	101-55-3		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
70		carbazole											
			201-696-0	86-74-8		43	mg/kg		39.001	mg/kg	0.0039 %	✓	
71		dibutyl phthalate; DBP											
		607-318-00-4	201-557-4	84-74-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
72		anthraquinone											
		606-151-00-4	201-549-0	84-65-1		18	mg/kg		16.326	mg/kg	0.00163 %	✓	
73		BBP; benzyl butyl phthalate											
		607-430-00-3	201-622-7	85-68-7		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
74		1,1,1-trichloroethane; methyl chloroform											
		602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
75		1,1,2,2-tetrachloroethane											
		602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
76		1,1,2-trichloroethane											
		602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
77		1,1-dichloroethylene; vinylidene chloride											
		602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
78		1,1-dichloropropene											
		602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
79		1,2,3-trichlorobenzene											
			201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
80		1,2,4-trimethylbenzene											
		601-043-00-3	202-436-9	95-63-6		0.12	mg/kg		0.109	mg/kg	0.0000109 %	✓	
81		1,2-dibromoethane											
		602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
82		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
83		1,2-dichloropropane; propylene dichloride											
		602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
84		1,3-dichlorbenzene											
		602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
85	●	1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87	●	2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88	●	bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91	●	n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98	●	dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101	●	hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102	●	4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103	●	sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				0.33	mg/kg		0.299	mg/kg	0.0000299 %	✓	
		601-026-00-0	202-851-5	100-42-5									
105	●	trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106	●	tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109	●	1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110	●	trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				0.064	mg/kg		0.058	mg/kg	0.0000058 %	✓	
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
114		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-016-00-4	204-427-5	120-80-9									
115		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-037-00-9	203-606-5	108-68-9									
116		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-029-00-5	201-969-4	90-15-3									
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
118		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
119		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.779 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 0.00004%)
toluene: (conc.: 0.0001%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.408%)
xylene: (conc.: 0.00004%)
1,2,4-trimethylbenzene: (conc.: 0.00001%)
styrene: (conc.: 0.00002%)
mesitylene; 1,3,5-trimethylbenzene: (conc.: 5.8e-06%)

Classification of sample: WS04-8-22112021-1.80

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

Sample details

Sample name:
WS04-8-22112021-1.80
Moisture content:
14%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4		anthracene		204-371-1	120-12-7		0.26 mg/kg		0.224 mg/kg	0.0000224 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.2 mg/kg	1.32	8.175 mg/kg	0.000818 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		0.011 mg/kg		0.0094 mg/kg	0.000000946 %	✓	
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.28 mg/kg		0.241 mg/kg	0.0000241 %	✓	
8		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**
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10		benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.93 mg/kg	2.775	2.22 mg/kg	0.000222 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.465 mg/kg	0.000346 %	✓	
14		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**
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24 mg/kg	1.462	30.167 mg/kg	0.00302 %	✓	

#		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
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		0.3	mg/kg		0.258	mg/kg	0.0000258 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25	mg/kg	1.126	24.207	mg/kg	0.00242 %	✓	
19		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
20		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
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		0.55	mg/kg		0.473	mg/kg	0.0000473 %	✓	
23		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		10.32	mg/kg	0.00103 %	✓	
26		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
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<LOD
28		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	39.393	mg/kg	0.00394 %	✓	
29		pH			PH		8.4	pH		8.4	pH	8.4 pH		
30		phenanthrene		201-581-5	85-01-8		0.86	mg/kg		0.74	mg/kg	0.000074 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
32		pyrene		204-927-3	129-00-0		0.55	mg/kg		0.473	mg/kg	0.0000473 %	✓	
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		0.054	mg/kg		0.0464	mg/kg	0.00000464 %	✓	
35		toluene	601-021-00-3	203-625-9	108-88-3		0.007	mg/kg		0.006	mg/kg	0.000000602 %	✓	
36		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		56	mg/kg	1.245	59.945	mg/kg	0.00599 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				25	mg/kg	1.785	38.381	mg/kg	0.00384 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
57		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
58		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
59		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
60		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
61		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
62		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
64		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
65		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0243 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 9.46e-07%)
toluene: (conc.: 6.02e-07%)

Classification of sample: WS04-10-22112021-2.50

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

Sample details

Sample name:
WS04-10-22112021-2.50
Moisture content:
13%
(wet 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% Wet 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		pH			PH		8.5 pH		8.5 pH	8.5 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		53 mg/kg	1.85	85.283 mg/kg	0.00853 %	✓	
									Total:	0.00853 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: WS02-5-22112021-1.40

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

Sample details

Sample name:
WS02-5-22112021-1.40
Moisture content:
20%
(wet 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% Wet 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	acenaphthene		201-469-6	83-32-9		5.6 mg/kg		4.48 mg/kg	0.000448 %	✓	
2	acenaphthylene		205-917-1	208-96-8		3.3 mg/kg		2.64 mg/kg	0.000264 %	✓	
3	anthracene		204-371-1	120-12-7		16 mg/kg		12.8 mg/kg	0.00128 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	11.619 mg/kg	0.00116 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		0.068 mg/kg		0.0544 mg/kg	0.00000544 %	✓	
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		30 mg/kg		24 mg/kg	0.0024 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		23 mg/kg		18.4 mg/kg	0.00184 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		27 mg/kg		21.6 mg/kg	0.00216 %	✓	
9	benzo[ghi]perylene		205-883-8	191-24-2		13 mg/kg		10.4 mg/kg	0.00104 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		15 mg/kg		12 mg/kg	0.0012 %	✓	
11	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 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	6.446 mg/kg	0.000645 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.5 mg/kg	1.285	0.514 mg/kg	0.00004 %	✓	
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30 mg/kg	1.462	35.077 mg/kg	0.00351 %	✓	
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		23 mg/kg		18.4 mg/kg	0.00184 %	✓	

#		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
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		51	mg/kg	1.126	45.936	mg/kg	0.00459 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		3.8	mg/kg		3.04	mg/kg	0.000304 %	✓	
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.0077	mg/kg		0.0061	mg/kg	0.000000616 %	✓	
21		fluoranthene		205-912-4	206-44-0		53	mg/kg		42.4	mg/kg	0.00424 %	✓	
22		fluorene		201-695-5	86-73-7		11	mg/kg		8.8	mg/kg	0.00088 %	✓	
23		indeno[123-cd]pyrene		205-893-2	193-39-5		11	mg/kg		8.8	mg/kg	0.00088 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	100	mg/kg		80	mg/kg	0.008 %	✓	
25		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
26		naphthalene	601-052-00-2	202-049-5	91-20-3		19	mg/kg		15.2	mg/kg	0.00152 %	✓	
27		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	51.808	mg/kg	0.00518 %	✓	
28		pH			PH		7.8	pH		7.8	pH	7.8 pH		
29		phenanthrene		201-581-5	85-01-8		69	mg/kg		55.2	mg/kg	0.00552 %	✓	
30		pyrene		204-927-3	129-00-0		54	mg/kg		43.2	mg/kg	0.00432 %	✓	
31		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
32		toluene	601-021-00-3	203-625-9	108-88-3		0.023	mg/kg		0.0184	mg/kg	0.00000184 %	✓	
33		TPH (C6 to C40) petroleum group			TPH		330	mg/kg		264	mg/kg	0.0264 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.0261	mg/kg		0.0209	mg/kg	0.00000209 %	✓	
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		82	mg/kg	1.245	81.653	mg/kg	0.00817 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35	mg/kg	1.785	49.985	mg/kg	0.005 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.0938 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 5.44e-06%)
ethylbenzene: (conc.: 6.16e-07%)
toluene: (conc.: 1.84e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0264%)
xylene: (conc.: 2.09e-06%)

Classification of sample: WS02-6-22112021-1.80

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

Sample details

Sample name:
WS02-6-22112021-1.80
Moisture content:
21%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		**<LOD**
2		acenaphthene		201-469-6	83-32-9		10 mg/kg		7.9 mg/kg	0.00079 %	✓	
3		acenaphthylene		205-917-1	208-96-8		9.1 mg/kg		7.189 mg/kg	0.000719 %	✓	
4		anthracene		204-371-1	120-12-7		31 mg/kg		24.49 mg/kg	0.00245 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		0.0099 mg/kg		0.0078 mg/kg	0.000000782 %	✓	
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		71 mg/kg		56.09 mg/kg	0.00561 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		61 mg/kg		48.19 mg/kg	0.00482 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		64 mg/kg		50.56 mg/kg	0.00506 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		36 mg/kg		28.44 mg/kg	0.00284 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		23 mg/kg		18.17 mg/kg	0.00182 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		48 mg/kg		37.92 mg/kg	0.00379 %	✓	
12		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		10 mg/kg		7.9 mg/kg	0.00079 %	✓	
13		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		**<LOD**
14		fluoranthene		205-912-4	206-44-0		150 mg/kg		118.5 mg/kg	0.0119 %	✓	
15		fluorene		201-695-5	86-73-7		23 mg/kg		18.17 mg/kg	0.00182 %	✓	
16		indeno[123-cd]pyrene		205-893-2	193-39-5		30 mg/kg		23.7 mg/kg	0.00237 %	✓	
17		naphthalene	601-052-00-2	202-049-5	91-20-3		12 mg/kg		9.48 mg/kg	0.000948 %	✓	
18		phenanthrene		201-581-5	85-01-8		160 mg/kg		126.4 mg/kg	0.0126 %	✓	

#		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									
19		phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				160	mg/kg		126.4	mg/kg	0.0126 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				0.043	mg/kg		0.034	mg/kg	0.0000034 %	✓	
		602-028-00-4	204-825-9	127-18-4									
22		toluene				0.0074	mg/kg		0.0058	mg/kg	0.000000585 %	✓	
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				1000	mg/kg		790	mg/kg	0.079 %	✓	
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				6.7	mg/kg		5.293	mg/kg	0.000529 %	✓	
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				8	mg/kg		6.32	mg/kg	0.000632 %	✓	
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				7	mg/kg		5.53	mg/kg	0.000553 %	✓	
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				5.2	mg/kg		4.108	mg/kg	0.000411 %	✓	
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				4.6	mg/kg		3.634	mg/kg	0.000363 %	✓	
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				0.0076	mg/kg		0.006	mg/kg	0.0000006 %	✓	
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
97		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
98		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
99		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
								Total:	0.153 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 7.82e-07%)
toluene: (conc.: 5.85e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.079%)
1,2,4-trimethylbenzene: (conc.: 6.0e-07%)

Classification of sample: WS02-10-22112021-3.00

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

Sample details

Sample name:
WS02-10-22112021-3.00
Moisture content:
20%
(wet 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.: 0.152%)

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.: 0.152%)

Determinands

Moisture content: 20% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		26 mg/kg		20.8 mg/kg	0.00208 %	✓	
3		acenaphthylene		205-917-1	208-96-8		27 mg/kg		21.6 mg/kg	0.00216 %	✓	
4		anthracene		204-371-1	120-12-7		85 mg/kg		68 mg/kg	0.0068 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		0.037 mg/kg		0.0296 mg/kg	0.00000296 %	✓	
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		220 mg/kg		176 mg/kg	0.0176 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		230 mg/kg		184 mg/kg	0.0184 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		240 mg/kg		192 mg/kg	0.0192 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		130 mg/kg		104 mg/kg	0.0104 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		65 mg/kg		52 mg/kg	0.0052 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
11		chrysene				190	mg/kg		152	mg/kg	0.0152 %	✓	
		601-048-00-0	205-923-4	218-01-9									
12		dibenz[a,h]anthracene				35	mg/kg		28	mg/kg	0.0028 %	✓	
		601-041-00-2	200-181-8	53-70-3									
13		ethylbenzene				0.02	mg/kg		0.016	mg/kg	0.0000016 %	✓	
		601-023-00-4	202-849-4	100-41-4									
14		fluoranthene				360	mg/kg		288	mg/kg	0.0288 %	✓	
			205-912-4	206-44-0									
15		fluorene				49	mg/kg		39.2	mg/kg	0.00392 %	✓	
			201-695-5	86-73-7									
16		indeno[123-cd]pyrene				110	mg/kg		88	mg/kg	0.0088 %	✓	
			205-893-2	193-39-5									
17		naphthalene				46	mg/kg		36.8	mg/kg	0.00368 %	✓	
		601-052-00-2	202-049-5	91-20-3									
18		phenanthrene				410	mg/kg		328	mg/kg	0.0328 %	✓	
			201-581-5	85-01-8									
19		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				380	mg/kg		304	mg/kg	0.0304 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
22		toluene				0.021	mg/kg		0.0168	mg/kg	0.00000168 %	✓	
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				1900	mg/kg		1520	mg/kg	0.152 %	✓	
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		xylene				0.168	mg/kg		0.134	mg/kg	0.0000134 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-014-00-3	200-431-6	59-50-7									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				9.2	mg/kg		7.36	mg/kg	0.000736 %	✓	
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				19	mg/kg		15.2	mg/kg	0.00152 %	✓	
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
			202-952-4	101-55-3									
54		carbazole				16	mg/kg		12.8	mg/kg	0.00128 %	✓	
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				14	mg/kg		11.2	mg/kg	0.00112 %	✓	
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63	●	1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				0.033	mg/kg		0.0264	mg/kg	0.00000264 %	✓	
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
69	●	1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71	●	2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72	●	bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75	●	n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82	●	dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85	●	hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86	●	4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87	●	sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89	●	trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
90	●	tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93	●	1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94	●	trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				0.018	mg/kg		0.0144	mg/kg	0.00000144 %	✓	
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
97		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									
98		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-016-00-4	204-427-5	120-80-9									
99		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-037-00-9	203-606-5	108-68-9									
100		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-029-00-5	201-969-4	90-15-3									
101		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
102		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
103		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.366 %		

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)
<LOD	Below limit of detection
ND	Not detected

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 2.96e-06%)
ethylbenzene: (conc.: 1.6e-06%)
toluene: (conc.: 1.68e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.152%)
xylene: (conc.: 0.00001%)
1,2,4-trimethylbenzene: (conc.: 2.64e-06%)
mesitylene; 1,3,5-trimethylbenzene: (conc.: 1.44e-06%)

Classification of sample: WS02-11-22112021-3.50

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

Sample details

Sample name:
WS02-11-22112021-3.50
Moisture content:
12%
(wet 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% Wet 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	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2	●	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	●	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	●	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
7		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**
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
9	●	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
12		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**
13	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
14	●	fluoranthene		205-912-4	206-44-0		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
15	●	fluorene		201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
16	●	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
17		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001 mg/kg		<0.0001 mg/kg	<0.00000001 %		<**LOD**
18	●	phenanthrene		201-581-5	85-01-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**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									
19		phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
22		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
25		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
97		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]											
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
98		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]											
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
99		cumene; [1] propylbenzene [2]											
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
										Total:	0.00174 %		

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: WS02-12-22112021-3.70

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

Sample details

Sample name:
WS02-12-22112021-3.70
Moisture content:
12%
(wet 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% Wet 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		pH			PH		8.9 pH		8.9 pH	8.9 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		42 mg/kg	1.85	68.36 mg/kg	0.00684 %	✓	
									Total:	0.00684 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH08-1-22112021-0.50

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

Sample details

Sample name:
MPBH08-1-22112021-0.50
Moisture content:
11%
(wet 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 8: Corrosive "waste which on application can cause skin corrosion"

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

Because of determinand:

pH: (conc.: 11.6 pH)

Determinands

Moisture content: 11% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5	mg/kg	1.32	5.875	mg/kg	0.000588 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
7		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
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.67	mg/kg	2.775	1.655	mg/kg	0.000165 %	✓	
12		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
13		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3	mg/kg	1.285	0.343	mg/kg	0.0000267 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23	mg/kg	1.462	29.918	mg/kg	0.00299 %	✓	

#		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
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
16		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.126	13.027	mg/kg	0.0013 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		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
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		0.3	mg/kg		0.267	mg/kg	0.0000267 %	✓	
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15	mg/kg		13.35	mg/kg	0.00134 %	✓	
25		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
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		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	25.304	mg/kg	0.00253 %	✓	
28		pH			PH		11.6	pH		11.6	pH	11.6 pH		
29		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		0.31	mg/kg		0.276	mg/kg	0.0000276 %	✓	
31		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
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		45	mg/kg	1.245	49.851	mg/kg	0.00499 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	36.543	mg/kg	0.00365 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.0197 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS03-1-22112021-0.80

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

Sample details

Sample name:
WS03-1-22112021-0.80
Moisture content:
9.9%
(wet 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: 9.9% Wet 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		acenaphthene		201-469-6	83-32-9		2.7	mg/kg		2.433	mg/kg	0.000243 %	✓	
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		5.2	mg/kg		4.685	mg/kg	0.000469 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	15.465	mg/kg	0.00155 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		10	mg/kg		9.01	mg/kg	0.000901 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		7.3	mg/kg		6.577	mg/kg	0.000658 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		9.4	mg/kg		8.469	mg/kg	0.000847 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		5.1	mg/kg		4.595	mg/kg	0.00046 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.4	mg/kg		3.063	mg/kg	0.000306 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1	mg/kg	2.775	2.501	mg/kg	0.00025 %	✓	
11		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**
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24	mg/kg	1.462	31.605	mg/kg	0.00316 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		8.3	mg/kg		7.478	mg/kg	0.000748 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		59	mg/kg	1.126	59.851	mg/kg	0.00599 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1.3	mg/kg		1.171	mg/kg	0.000117 %	✓	
19		fluoranthene		205-912-4	206-44-0		25	mg/kg		22.525	mg/kg	0.00225 %	✓	
20		fluorene		201-695-5	86-73-7		2	mg/kg		1.802	mg/kg	0.00018 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		4.1	mg/kg		3.694	mg/kg	0.000369 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	58	mg/kg		52.258	mg/kg	0.00523 %	✓	
23		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**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		27	mg/kg	1.579	38.424	mg/kg	0.00384 %	✓	
26		pH			PH		9	pH		9	pH	9pH		
27		phenanthrene		201-581-5	85-01-8		20	mg/kg		18.02	mg/kg	0.0018 %	✓	
28		pyrene		204-927-3	129-00-0		22	mg/kg		19.822	mg/kg	0.00198 %	✓	
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		67	mg/kg	1.245	75.14	mg/kg	0.00751 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		33	mg/kg	1.785	53.079	mg/kg	0.00531 %	✓	
											Total:	0.0452 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS03-4-22112021-1.40

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

Sample details

Sample name:
WS03-4-22112021-1.40
Moisture content:
20%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		**<LOD**
2		acenaphthene		201-469-6	83-32-9		15 mg/kg		12 mg/kg	0.0012 %	✓	
3		acenaphthylene		205-917-1	208-96-8		1.9 mg/kg		1.52 mg/kg	0.000152 %	✓	
4		anthracene		204-371-1	120-12-7		25 mg/kg		20 mg/kg	0.002 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		**<LOD**
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		39 mg/kg		31.2 mg/kg	0.00312 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		32 mg/kg		25.6 mg/kg	0.00256 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		34 mg/kg		27.2 mg/kg	0.00272 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		20 mg/kg		16 mg/kg	0.0016 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		13 mg/kg		10.4 mg/kg	0.00104 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		34 mg/kg		27.2 mg/kg	0.00272 %	✓	
12		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		5.6 mg/kg		4.48 mg/kg	0.000448 %	✓	
13		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		**<LOD**
14		fluoranthene		205-912-4	206-44-0		73 mg/kg		58.4 mg/kg	0.00584 %	✓	
15		fluorene		201-695-5	86-73-7		16 mg/kg		12.8 mg/kg	0.00128 %	✓	
16		indeno[123-cd]pyrene		205-893-2	193-39-5		16 mg/kg		12.8 mg/kg	0.00128 %	✓	
17		naphthalene	601-052-00-2	202-049-5	91-20-3		10 mg/kg		8 mg/kg	0.0008 %	✓	
18		phenanthrene		201-581-5	85-01-8		89 mg/kg		71.2 mg/kg	0.00712 %	✓	

#		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									
19		phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				78	mg/kg		62.4	mg/kg	0.00624 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
22		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				630	mg/kg		504	mg/kg	0.0504 %	✓	
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				8.1	mg/kg		6.48	mg/kg	0.000648 %	✓	
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				6.2	mg/kg		4.96	mg/kg	0.000496 %	✓	
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				3.9	mg/kg		3.12	mg/kg	0.000312 %	✓	
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				2.5	mg/kg		2	mg/kg	0.0002 %	✓	
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
97		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		**<LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
98		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		**<LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
99		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		**<LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0927 %		

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

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 The sample is not wet and unlikely to be flammable.

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: WS03-5-22112021-1.70

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

Sample details

Sample name:
WS03-5-22112021-1.70
Moisture content:
21%
(wet 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% Wet 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		pH			PH		7.6 pH		7.6 pH	7.6 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		70 mg/kg	1.85	102.281 mg/kg	0.0102 %	✓	
									Total:	0.0102 %		

Key

	User supplied data
	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
	This determinand is defined in the EU CLP Table 3

Classification of sample: WS01-1-22112021-0.50

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

Sample details

Sample name:
WS01-1-22112021-0.50
Moisture content:
18%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		2.3	mg/kg		1.886	mg/kg	0.000189 %	✓	
2		acenaphthylene		205-917-1	208-96-8		1	mg/kg		0.82	mg/kg	0.000082 %	✓	
3		anthracene		204-371-1	120-12-7		8.8	mg/kg		7.216	mg/kg	0.000722 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16	mg/kg	1.32	17.323	mg/kg	0.00173 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		18	mg/kg		14.76	mg/kg	0.00148 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		14	mg/kg		11.48	mg/kg	0.00115 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		17	mg/kg		13.94	mg/kg	0.00139 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		8.2	mg/kg		6.724	mg/kg	0.000672 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		4.5	mg/kg		3.69	mg/kg	0.000369 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	2.503	mg/kg	0.00025 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.405	mg/kg	0.000441 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		24	mg/kg	1.462	28.763	mg/kg	0.00288 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		13	mg/kg		10.66	mg/kg	0.00107 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		42	mg/kg	1.126	38.776	mg/kg	0.00388 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		2.5	mg/kg		2.05	mg/kg	0.000205 %	✓	
19		fluoranthene		205-912-4	206-44-0		29	mg/kg		23.78	mg/kg	0.00238 %	✓	
20		fluorene		201-695-5	86-73-7		2.9	mg/kg		2.378	mg/kg	0.000238 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		6.7	mg/kg		5.494	mg/kg	0.000549 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190	mg/kg		155.8	mg/kg	0.0156 %	✓	
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		6	mg/kg	1.353	6.659	mg/kg	0.000666 %	✓	
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		31	mg/kg	1.579	40.151	mg/kg	0.00402 %	✓	
26		pH			PH		8.7	pH		8.7	pH	8.7 pH		
27		phenanthrene		201-581-5	85-01-8		25	mg/kg		20.5	mg/kg	0.00205 %	✓	
28		pyrene		204-927-3	129-00-0		29	mg/kg		23.78	mg/kg	0.00238 %	✓	
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		79	mg/kg	1.245	80.633	mg/kg	0.00806 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		30	mg/kg	1.785	43.916	mg/kg	0.00439 %	✓	
											Total:	0.0575 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS01-4-22112021-0.90

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

Sample details

Sample name:
WS01-4-22112021-0.90
Moisture content:
14%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.1 mg/kg	1.32	8.062 mg/kg	0.000806 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
6		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
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.625 mg/kg	0.000263 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.465 mg/kg	0.000346 %	✓	
12		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29 mg/kg	1.462	36.451 mg/kg	0.00365 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24 mg/kg	1.126	23.238 mg/kg	0.00232 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		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**
19		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14	mg/kg		12.04	mg/kg	0.0012 %	✓	
23		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**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		34	mg/kg	1.579	46.185	mg/kg	0.00462 %	✓	
26		pH			PH		8.8	pH		8.8	pH	8.8 pH		
27		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
28		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		69	mg/kg	1.245	73.861	mg/kg	0.00739 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		30	mg/kg	1.785	46.058	mg/kg	0.00461 %	✓	
											Total:	0.026 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH03-6-25112021-4.20

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

Sample details

Sample name:
MPBH03-6-25112021-4.20
Moisture content:
14%
(wet 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% Wet 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		pH			PH		9	pH		9	pH	9pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		36	mg/kg	1.85	57.263	mg/kg	0.00573 %	✓	
											Total:	0.00573 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH03-3-25112021-1.40

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

Sample details

Sample name:
MPBH03-3-25112021-1.40
Moisture content:
16%
(wet 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% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
2	•	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
4	•	TPH (C6 to C40) petroleum group			TPH		49	mg/kg		41.16	mg/kg	0.00412 %	✓	
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.00412 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00412%)

Classification of sample: MPBH04-18-25112021-6.20

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

Sample details

Sample name:
MPBH04-18-25112021-6.20
Moisture content:
13%
(wet 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% Wet 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		pH			PH		9.2 pH		9.2 pH	9.2 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		26 mg/kg	1.85	41.837 mg/kg	0.00418 %	✓	
									Total:	0.00418 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH06-1-25112021-0.50

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

Sample details

Sample name:
MPBH06-1-25112021-0.50
Moisture content:
8.7%
(wet 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: 8.7% Wet 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	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.1 mg/kg	1.32	4.942 mg/kg	0.000494 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.35 mg/kg		0.32 mg/kg	0.000032 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.35 mg/kg		0.32 mg/kg	0.000032 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.31 mg/kg		0.283 mg/kg	0.0000283 %	✓	
8	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.17 mg/kg		0.155 mg/kg	0.0000155 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.77 mg/kg	2.775	1.951 mg/kg	0.000195 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.2 mg/kg	13.43	2.452 mg/kg	0.000245 %	✓	
12	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
13	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	30.691 mg/kg	0.00307 %	✓	
14	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
15	chrysene	601-048-00-0	205-923-4	218-01-9		0.24 mg/kg		0.219 mg/kg	0.0000219 %	✓	
16	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		8.8 mg/kg	1.126	9.046 mg/kg	0.000905 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		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									
19		fluoranthene				0.52	mg/kg		0.475	mg/kg	0.0000475 %	✓	
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		10.043	mg/kg	0.001 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				20	mg/kg	1.579	28.842	mg/kg	0.00288 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				10	pH		10	pH	10pH		
				PH									
27		phenanthrene				0.36	mg/kg		0.329	mg/kg	0.0000329 %	✓	
			201-581-5	85-01-8									
28		pyrene				0.56	mg/kg		0.511	mg/kg	0.0000511 %	✓	
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				32	mg/kg	1.245	36.366	mg/kg	0.00364 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				24	mg/kg	1.785	39.117	mg/kg	0.00391 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0174 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH04-1-25112021-0.50

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

Sample details

Sample name:
MPBH04-1-25112021-0.50
Moisture content:
16%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.4	mg/kg	1.32	4.88	mg/kg	0.000488 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
6		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
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.88	mg/kg	2.775	2.052	mg/kg	0.000205 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.512	mg/kg	0.000451 %	✓	
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3	mg/kg	1.285	0.324	mg/kg	0.0000252 %	✓	
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28	mg/kg	1.462	34.376	mg/kg	0.00344 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12	mg/kg	1.126	11.349	mg/kg	0.00113 %	✓	

#		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									
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
18		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									
19		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-912-4	206-44-0									
20		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-695-5	86-73-7									
21		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			205-893-2	193-39-5									
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11	mg/kg		9.24	mg/kg	0.000924 %	✓	
		082-001-00-6											
23		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
		080-010-00-X	231-299-8	7487-94-7									
24		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
25		nickel { nickel dihydroxide }				22	mg/kg	1.579	29.189	mg/kg	0.00292 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
26		pH				10.7	pH		10.7	pH	10.7 pH		
				PH									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			201-581-5	85-01-8									
28		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			204-927-3	129-00-0									
29		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
		034-002-00-8											
30		zinc { zinc oxide }				48	mg/kg	1.245	50.187	mg/kg	0.00502 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
31		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				P1186									
32		vanadium { divanadium pentaoxide; vanadium pentoxide }				28	mg/kg	1.785	41.988	mg/kg	0.0042 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
										Total:	0.0196 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH04-4-25112021-1.20

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

Sample details

Sample name:
MPBH04-4-25112021-1.20
Moisture content:
17%
(wet 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% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
4	●	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
									Total:	0.001 %		

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: MPBH10-2-25112021-0.50

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

Sample details

Sample name:
MPBH10-2-25112021-0.50
Moisture content:
11%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5.2	mg/kg	1.32	6.11	mg/kg	0.000611 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.25	mg/kg		0.223	mg/kg	0.0000222 %	✓	
6		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**
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
8		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.92	mg/kg	2.775	2.272	mg/kg	0.000227 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3	mg/kg	13.43	3.586	mg/kg	0.000359 %	✓	
12		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.3	mg/kg	1.285	0.343	mg/kg	0.0000267 %	✓	
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30	mg/kg	1.462	39.024	mg/kg	0.0039 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		0.24	mg/kg		0.214	mg/kg	0.0000214 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16	mg/kg	1.126	16.033	mg/kg	0.0016 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		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
19		fluoranthene		205-912-4	206-44-0		0.45	mg/kg		0.401	mg/kg	0.0000401 %	✓	
20		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	16	mg/kg		14.24	mg/kg	0.00142 %	✓	
23		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
24		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		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	32.332	mg/kg	0.00323 %	✓	
26		pH			PH		11.1	pH		11.1	pH	11.1 pH		
27		phenanthrene		201-581-5	85-01-8		0.6	mg/kg		0.534	mg/kg	0.0000534 %	✓	
28		pyrene		204-927-3	129-00-0		0.52	mg/kg		0.463	mg/kg	0.0000463 %	✓	
29		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
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		42	mg/kg	1.245	46.527	mg/kg	0.00465 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		32	mg/kg	1.785	50.842	mg/kg	0.00508 %	✓	
											Total:	0.0221 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP12-1-29112021-0.20

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

Sample details

Sample name:
TP12-1-29112021-0.20
Moisture content:
17%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		0.39	mg/kg		0.324	mg/kg	0.0000324 %	✓	
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
3		anthracene		204-371-1	120-12-7		0.97	mg/kg		0.805	mg/kg	0.0000805 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		33	mg/kg	1.32	36.164	mg/kg	0.00362 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.1	mg/kg		2.573	mg/kg	0.000257 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.9	mg/kg		2.407	mg/kg	0.000241 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		3.3	mg/kg		2.739	mg/kg	0.000274 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		1.8	mg/kg		1.494	mg/kg	0.000149 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.6	mg/kg		1.328	mg/kg	0.000133 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.5	mg/kg	2.775	3.455	mg/kg	0.000346 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3	mg/kg	13.43	3.344	mg/kg	0.000334 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		32	mg/kg	1.462	38.819	mg/kg	0.00388 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		2.6	mg/kg		2.158	mg/kg	0.000216 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		200	mg/kg	1.126	186.897	mg/kg	0.0187 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.47	mg/kg		0.39	mg/kg	0.000039 %	✓	
19		fluoranthene		205-912-4	206-44-0		4.7	mg/kg		3.901	mg/kg	0.00039 %	✓	
20		fluorene		201-695-5	86-73-7		0.41	mg/kg		0.34	mg/kg	0.000034 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		1.7	mg/kg		1.411	mg/kg	0.000141 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190	mg/kg		157.7	mg/kg	0.0158 %	✓	
23		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**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		0.79	mg/kg		0.656	mg/kg	0.0000656 %	✓	
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		55	mg/kg	1.579	72.104	mg/kg	0.00721 %	✓	
26		pH			PH		8.2	pH		8.2	pH	8.2 pH		
27		phenanthrene		201-581-5	85-01-8		3.3	mg/kg		2.739	mg/kg	0.000274 %	✓	
28		pyrene		204-927-3	129-00-0		4.9	mg/kg		4.067	mg/kg	0.000407 %	✓	
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		220	mg/kg	1.245	227.285	mg/kg	0.0227 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		50	mg/kg	1.785	74.085	mg/kg	0.00741 %	✓	
											Total:	0.0834 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP12-2-29112021-1.30

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

Sample details

Sample name:
TP12-2-29112021-1.30
Moisture content:
17%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		0.63	mg/kg		0.523	mg/kg	0.0000523 %	✓	
2		acenaphthylene		205-917-1	208-96-8		0.15	mg/kg		0.125	mg/kg	0.0000124 %	✓	
3		anthracene		204-371-1	120-12-7		1.4	mg/kg		1.162	mg/kg	0.000116 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	14.246	mg/kg	0.00142 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		5.1	mg/kg		4.233	mg/kg	0.000423 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		6.1	mg/kg		5.063	mg/kg	0.000506 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		5.6	mg/kg		4.648	mg/kg	0.000465 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		4.6	mg/kg		3.818	mg/kg	0.000382 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		2.7	mg/kg		2.241	mg/kg	0.000224 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1	mg/kg	2.775	2.534	mg/kg	0.000253 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3	mg/kg	13.43	3.344	mg/kg	0.000334 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28	mg/kg	1.462	33.967	mg/kg	0.0034 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		3.4	mg/kg		2.822	mg/kg	0.000282 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		34	mg/kg	1.126	31.773	mg/kg	0.00318 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1	mg/kg		0.83	mg/kg	0.000083 %	✓	
19		fluoranthene		205-912-4	206-44-0		5.9	mg/kg		4.897	mg/kg	0.00049 %	✓	
20		fluorene		201-695-5	86-73-7		0.51	mg/kg		0.423	mg/kg	0.0000423 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		3.8	mg/kg		3.154	mg/kg	0.000315 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	44	mg/kg		36.52	mg/kg	0.00365 %	✓	
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.6	mg/kg	1.353	0.674	mg/kg	0.0000674 %	✓	
24		naphthalene	601-052-00-2	202-049-5	91-20-3		0.66	mg/kg		0.548	mg/kg	0.0000548 %	✓	
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		33	mg/kg	1.579	43.262	mg/kg	0.00433 %	✓	
26		pH			PH		8.6	pH		8.6	pH	8.6 pH		
27		phenanthrene		201-581-5	85-01-8		4.7	mg/kg		3.901	mg/kg	0.00039 %	✓	
28		pyrene		204-927-3	129-00-0		6.7	mg/kg		5.561	mg/kg	0.000556 %	✓	
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		79	mg/kg	1.245	81.616	mg/kg	0.00816 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31	mg/kg	1.785	45.933	mg/kg	0.00459 %	✓	
											Total:	0.0345 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP12-5-29112021-1.80

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

Sample details

Sample name:
TP12-5-29112021-1.80
Moisture content:
14%
(wet 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% Wet 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		pH			PH		8.8 pH		8.8 pH	8.8 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		21 mg/kg	1.85	33.403 mg/kg	0.00334 %	✓	
									Total:	0.00334 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: TP16-1-29112021-0.50

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

Sample details

Sample name:
TP16-1-29112021-0.50
Moisture content:
11%
(wet 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.: 0.196%)

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.: 0.196%)

Determinands

Moisture content: 11% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
2		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
4		TPH (C6 to C40) petroleum group			TPH		2200 mg/kg		1958 mg/kg	0.196 %	✓	
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
									Total:	0.196 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection
ND	Not detected

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.196%)

Classification of sample: TP16-3-29112021-1.10

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

Sample details

Sample name:
TP16-3-29112021-1.10
Moisture content:
22%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		4.7	mg/kg		3.666	mg/kg	0.000367 %	✓	
3		acenaphthylene		205-917-1	208-96-8		1.9	mg/kg		1.482	mg/kg	0.000148 %	✓	
4		anthracene		204-371-1	120-12-7		7.3	mg/kg		5.694	mg/kg	0.000569 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	21.627	mg/kg	0.00216 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		0.051	mg/kg		0.0398	mg/kg	0.00000398 %	✓	
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		21	mg/kg		16.38	mg/kg	0.00164 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		24	mg/kg		18.72	mg/kg	0.00187 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		22	mg/kg		17.16	mg/kg	0.00172 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		16	mg/kg		12.48	mg/kg	0.00125 %	✓	
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		9.7	mg/kg		7.566	mg/kg	0.000757 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.2	mg/kg	2.775	2.598	mg/kg	0.00026 %	✓	
13		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**
14		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**
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28	mg/kg	1.462	31.92	mg/kg	0.00319 %	✓	

#		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
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
17		chrysene	601-048-00-0	205-923-4	218-01-9		16	mg/kg		12.48	mg/kg	0.00125 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		42	mg/kg	1.126	36.884	mg/kg	0.00369 %	✓	
19		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**
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		3.5	mg/kg		2.73	mg/kg	0.000273 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.02	mg/kg		0.0156	mg/kg	0.00000156 %	✓	
22		fluoranthene		205-912-4	206-44-0		26	mg/kg		20.28	mg/kg	0.00203 %	✓	
23		fluorene		201-695-5	86-73-7		4.3	mg/kg		3.354	mg/kg	0.000335 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		13	mg/kg		10.14	mg/kg	0.00101 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	44	mg/kg		34.32	mg/kg	0.00343 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		4	mg/kg	1.353	4.223	mg/kg	0.000422 %	✓	
27		naphthalene	601-052-00-2	202-049-5	91-20-3		5.3	mg/kg		4.134	mg/kg	0.000413 %	✓	
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		38	mg/kg	1.579	46.816	mg/kg	0.00468 %	✓	
29		pH			PH		8.2	pH		8.2	pH	8.2 pH		
30		phenanthrene		201-581-5	85-01-8		27	mg/kg		21.06	mg/kg	0.00211 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		pyrene		204-927-3	129-00-0		30	mg/kg		23.4	mg/kg	0.00234 %	✓	
33		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**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
35		toluene	601-021-00-3	203-625-9	108-88-3		0.023	mg/kg		0.0179	mg/kg	0.00000179 %	✓	
36		TPH (C6 to C40) petroleum group			TPH		240	mg/kg		187.2	mg/kg	0.0187 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.056	mg/kg		0.0437	mg/kg	0.00000437 %	✓	
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		110	mg/kg	1.245	106.796	mg/kg	0.0107 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
42		monohydric phenols											
				P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
43		vanadium { divanadium pentaoxide; vanadium pentoxide }											
		023-001-00-8	215-239-8	1314-62-1		32	mg/kg	1.785	44.558	mg/kg	0.00446 %	✓	
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane											
		603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
45		aniline											
		612-008-00-7	200-539-3	62-53-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]											
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
47		bis(2-chloroethyl) ether											
		603-029-00-2	203-870-1	111-44-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
48		hexachloroethane											
			200-666-4	67-72-1		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
49		nitrobenzene											
		609-003-00-7	202-716-0	98-95-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
50		3,5,5-trimethylcyclohex-2-enone; isophorone											
		606-012-00-8	201-126-0	78-59-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
51		2-nitrophenol											
			201-857-5	88-75-5		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]											
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
53		bis(2-chloroethoxy)methane											
			203-920-2	111-91-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
54		2,4-dichlorophenol											
		604-011-00-7	204-429-6	120-83-2		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
55		4-chloroaniline											
		612-137-00-9	203-401-0	106-47-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol											
		604-014-00-3	200-431-6	59-50-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
57		2,4,6-trichlorophenol											
		604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
58		2,4,5-trichlorophenol											
		604-017-00-X	202-467-8	95-95-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
59		2-methyl naphthalene											
			202-078-3	91-57-6		2.1	mg/kg		1.638	mg/kg	0.000164 %	✓	
60		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
61		dimethyl phthalate											
			205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
62		2,6-dinitrotoluene											
		609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]											
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD

#		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									
64		dibenzofuran				2.3	mg/kg		1.794	mg/kg	0.000179 %	✓	
			205-071-3	132-64-9									
65		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70		carbazole				1.9	mg/kg		1.482	mg/kg	0.000148 %	✓	
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				0.0061	mg/kg		0.0047	mg/kg	0.000000476 %	✓	
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									

#		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
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
93		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
94		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
95		chloroethane	602-009-00-0	200-830-5	75-00-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
96		chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
97		chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
98		dibromochloromethane		204-704-0	124-48-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
99		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
100		dibromomethane	602-003-00-8	200-824-2	74-95-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
101		hexachlorobutadiene		201-765-5	87-68-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
102		4-isopropyltoluene		202-796-7	99-87-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
103		sec-butylbenzene		205-227-0	135-98-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
104		styrene	601-026-00-0	202-851-5	100-42-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
105		trans-1,3-dichloropropene		431-460-4	10061-02-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
106		tert-butylbenzene		202-632-4	98-06-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
107		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
108		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
109		1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
110		trichlorofluoromethane		200-892-3	75-69-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
111		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
112		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
113		resorcinol; 1,3-benzenediol	604-010-00-1	203-585-2	108-46-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
114		1,2-dihydroxybenzene; pyrocatechol	604-016-00-4	204-427-5	120-80-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
115		3,5-xylenol; 3,5-dimethylphenol	604-037-00-9	203-606-5	108-68-9		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
116		1-naphtol	604-029-00-5	201-969-4	90-15-3		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
118		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
119		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
								Total:	0.0719 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 3.98e-06%)
ethylbenzene: (conc.: 1.56e-06%)
toluene: (conc.: 1.79e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.0187%)
xylene: (conc.: 4.37e-06%)
1,2,4-trimethylbenzene: (conc.: 4.76e-07%)

Classification of sample: TP16-5-29112021-1.80

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

Sample details

Sample name:
TP16-5-29112021-1.80
Moisture content:
15%
(wet 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% Wet 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	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
2	●	acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3	●	acenaphthylene		205-917-1	208-96-8		0.36	mg/kg		0.306	mg/kg	0.0000306 %	✓	
4	●	anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
7		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
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9	●	benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
12		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
13	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
14	●	fluoranthene		205-912-4	206-44-0		0.3	mg/kg		0.255	mg/kg	0.0000255 %	✓	
15	●	fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
16	●	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
17		naphthalene	601-052-00-2	202-049-5	91-20-3		7.8	mg/kg		6.63	mg/kg	0.000663 %	✓	
18	●	phenanthrene		201-581-5	85-01-8		0.44	mg/kg		0.374	mg/kg	0.0000374 %	✓	

#		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									
19		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				0.33	mg/kg		0.281	mg/kg	0.0000281 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
22		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
25		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
97		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
98		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-016-00-4	204-427-5	120-80-9									
99		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-037-00-9	203-606-5	108-68-9									
100		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-029-00-5	201-969-4	90-15-3									
101		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
102		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
103		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.00256 %		

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: TP01-2-29112021-0.40

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

Sample details

Sample name:
TP01-2-29112021-0.40
Moisture content:
10%
(wet 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: 10% Wet 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		acenaphthene		201-469-6	83-32-9		0.33	mg/kg		0.297	mg/kg	0.0000297 %	✓	
2		acenaphthylene		205-917-1	208-96-8		0.3	mg/kg		0.27	mg/kg	0.000027 %	✓	
3		anthracene		204-371-1	120-12-7		0.8	mg/kg		0.72	mg/kg	0.000072 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	14.26	mg/kg	0.00143 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.9	mg/kg		2.61	mg/kg	0.000261 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3	mg/kg		2.7	mg/kg	0.00027 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.8	mg/kg		2.52	mg/kg	0.000252 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		1.9	mg/kg		1.71	mg/kg	0.000171 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.8	mg/kg		1.62	mg/kg	0.000162 %	✓	
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.65	mg/kg	2.775	1.624	mg/kg	0.000162 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.835	mg/kg	0.000483 %	✓	
13		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**
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	21.046	mg/kg	0.0021 %	✓	
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
16		chrysene	601-048-00-0	205-923-4	218-01-9		2.7	mg/kg		2.43	mg/kg	0.000243 %	✓	

#		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
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25	mg/kg	1.126	25.332	mg/kg	0.00253 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.51	mg/kg		0.459	mg/kg	0.0000459 %	✓	
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		4.7	mg/kg		4.23	mg/kg	0.000423 %	✓	
22		fluorene		201-695-5	86-73-7		0.32	mg/kg		0.288	mg/kg	0.0000288 %	✓	
23		indeno[123-cd]pyrene		205-893-2	193-39-5		1.5	mg/kg		1.35	mg/kg	0.000135 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	110	mg/kg		99	mg/kg	0.0099 %	✓	
25		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
26		naphthalene	601-052-00-2	202-049-5	91-20-3		0.31	mg/kg		0.279	mg/kg	0.0000279 %	✓	
27		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	22.745	mg/kg	0.00227 %	✓	
28		pH			PH		8.7	pH		8.7	pH	8.7 pH		
29		phenanthrene		201-581-5	85-01-8		4	mg/kg		3.6	mg/kg	0.00036 %	✓	
30		pyrene		204-927-3	129-00-0		5.1	mg/kg		4.59	mg/kg	0.000459 %	✓	
31		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
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		120	mg/kg		108	mg/kg	0.0108 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		73	mg/kg	1.245	81.778	mg/kg	0.00818 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		24	mg/kg	1.785	38.56	mg/kg	0.00386 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.0454 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0108%)

Classification of sample: TP22-2-29112021-1.00

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

Sample details

Sample name:
TP22-2-29112021-1.00
Moisture content:
6.1%
(wet 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 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

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

Because of determinands:

fluoranthene: (conc.: 0.178%)
naphthalene: (conc.: 0.122%)
phenanthrene: (conc.: 0.31%)
pyrene: (conc.: 0.197%)

Determinands

Moisture content: 6.1% Wet 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	acenaphthene		201-469-6	83-32-9		590	mg/kg		554.01	mg/kg	0.0554 %	✓	
2	acenaphthylene		205-917-1	208-96-8		89	mg/kg		83.571	mg/kg	0.00836 %	✓	
3	anthracene		204-371-1	120-12-7		760	mg/kg		713.64	mg/kg	0.0714 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.1	mg/kg	1.32	11.282	mg/kg	0.00113 %	✓	
5	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		950	mg/kg		892.05	mg/kg	0.0892 %	✓	
6	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		600	mg/kg		563.4	mg/kg	0.0563 %	✓	
7	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		650	mg/kg		610.35	mg/kg	0.061 %	✓	
8	benzo[ghi]perylene		205-883-8	191-24-2		250	mg/kg		234.75	mg/kg	0.0235 %	✓	
9	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		240	mg/kg		225.36	mg/kg	0.0225 %	✓	
10	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.5	mg/kg	2.775	1.303	mg/kg	0.00013 %	✓	
11	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	5.044	mg/kg	0.000504 %	✓	
12	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

#		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		63	mg/kg	1.462	86.461	mg/kg	0.00865 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		850	mg/kg		798.15	mg/kg	0.0798 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24	mg/kg	1.126	25.373	mg/kg	0.00254 %	✓	
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		82	mg/kg		76.998	mg/kg	0.0077 %	✓	
19		fluoranthene		205-912-4	206-44-0		1900	mg/kg		1784.1	mg/kg	0.178 %	✓	
20		fluorene		201-695-5	86-73-7		690	mg/kg		647.91	mg/kg	0.0648 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		220	mg/kg		206.58	mg/kg	0.0207 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	20	mg/kg		18.78	mg/kg	0.00188 %	✓	
23		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.1	mg/kg	1.353	1.398	mg/kg	0.00014 %	✓	
24		naphthalene	601-052-00-2	202-049-5	91-20-3		1300	mg/kg		1220.7	mg/kg	0.122 %	✓	
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		39	mg/kg	1.579	57.843	mg/kg	0.00578 %	✓	
26		pH			PH		8.3	pH		8.3	pH	8.3 pH		
27		phenanthrene		201-581-5	85-01-8		3300	mg/kg		3098.7	mg/kg	0.31 %	✓	
28		pyrene		204-927-3	129-00-0		2100	mg/kg		1971.9	mg/kg	0.197 %	✓	
29		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
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		68	mg/kg	1.245	79.477	mg/kg	0.00795 %	✓	
31		monohydric phenols			P1186		8.8	mg/kg		8.263	mg/kg	0.000826 %	✓	
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		23	mg/kg	1.785	38.555	mg/kg	0.00386 %	✓	
											Total:	1.402 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP22-3-29112021-1.70

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

Sample details

Sample name:
TP22-3-29112021-1.70
Moisture content:
15%
(wet 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% Wet 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		acenaphthene		201-469-6	83-32-9		1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
2		acenaphthylene		205-917-1	208-96-8		0.44	mg/kg		0.374	mg/kg	0.0000374 %	✓	
3		anthracene		204-371-1	120-12-7		1.5	mg/kg		1.275	mg/kg	0.000127 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6	mg/kg	1.32	6.734	mg/kg	0.000673 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.3	mg/kg		1.955	mg/kg	0.000195 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.9	mg/kg		1.615	mg/kg	0.000162 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2	mg/kg		1.7	mg/kg	0.00017 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		1	mg/kg		0.85	mg/kg	0.000085 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.77	mg/kg		0.655	mg/kg	0.0000655 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1	mg/kg	2.775	2.359	mg/kg	0.000236 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.566	mg/kg	0.000457 %	✓	
12		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**
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27	mg/kg	1.462	33.543	mg/kg	0.00335 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		**<LOD**
15		chrysene	601-048-00-0	205-923-4	218-01-9		2.3	mg/kg		1.955	mg/kg	0.000195 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23	mg/kg	1.126	22.011	mg/kg	0.0022 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.28	mg/kg		0.238	mg/kg	0.0000238 %	✓	
19		fluoranthene		205-912-4	206-44-0		4.5	mg/kg		3.825	mg/kg	0.000383 %	✓	
20		fluorene		201-695-5	86-73-7		1.3	mg/kg		1.105	mg/kg	0.000111 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		0.87	mg/kg		0.74	mg/kg	0.000074 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11	mg/kg		9.35	mg/kg	0.000935 %	✓	
23		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**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		1.8	mg/kg		1.53	mg/kg	0.000153 %	✓	
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		31	mg/kg	1.579	41.62	mg/kg	0.00416 %	✓	
26		pH			PH		8.8	pH		8.8	pH	8.8 pH		
27		phenanthrene		201-581-5	85-01-8		7.9	mg/kg		6.715	mg/kg	0.000672 %	✓	
28		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		pyrene		204-927-3	129-00-0		5.4	mg/kg		4.59	mg/kg	0.000459 %	✓	
30		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**
31		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		57	mg/kg	1.245	60.306	mg/kg	0.00603 %	✓	
32		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
33		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29	mg/kg	1.785	44.005	mg/kg	0.0044 %	✓	
34		resorcinol; 1,3-benzenediol	604-010-00-1	203-585-2	108-46-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		1,2-dihydroxybenzene; pyrocatechol	604-016-00-4	204-427-5	120-80-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		3,5-xylenol; 3,5-dimethylphenol	604-037-00-9	203-606-5	108-68-9		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
37		1-naphtol	604-029-00-5	201-969-4	90-15-3		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
											Total:	0.0263 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH07-1-29112021-0.50

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

Sample details

Sample name:
MPBH07-1-29112021-0.50
Moisture content:
10%
(wet 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: 10% Wet 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	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.2 mg/kg	1.32	4.991 mg/kg	0.000499 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.26 mg/kg		0.234 mg/kg	0.0000234 %	✓	
7	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
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.84 mg/kg	2.775	2.098 mg/kg	0.00021 %	✓	
12	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
13	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
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	35.516 mg/kg	0.00355 %	✓	
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		0.18 mg/kg		0.162 mg/kg	0.0000162 %	✓	

#		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
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.126	10.133	mg/kg	0.00101 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		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
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		0.42	mg/kg		0.378	mg/kg	0.0000378 %	✓	
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14	mg/kg		12.6	mg/kg	0.00126 %	✓	
25		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
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		27	mg/kg	1.579	38.382	mg/kg	0.00384 %	✓	
28		pH			PH		10.1	pH		10.1	pH	10.1 pH		
29		phenanthrene		201-581-5	85-01-8		0.53	mg/kg		0.477	mg/kg	0.0000477 %	✓	
30		pyrene		204-927-3	129-00-0		0.53	mg/kg		0.477	mg/kg	0.0000477 %	✓	
31		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
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		48	mg/kg	1.245	53.772	mg/kg	0.00538 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		29	mg/kg	1.785	46.593	mg/kg	0.00466 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH06-19-30112021-16.80

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

Sample details

Sample name:
MPBH06-19-30112021-16.80
Moisture content:
11%
(wet 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% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
2		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4		anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1.2 mg/kg	1.32	1.41 mg/kg	0.000141 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8		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
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10		benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.66 mg/kg	2.775	1.63 mg/kg	0.000163 %	✓	
13		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
14		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
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		6 mg/kg	1.462	7.805 mg/kg	0.00078 %	✓	

#		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
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4.3	mg/kg	1.126	4.309	mg/kg	0.000431 %	✓	
19		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
20		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
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	2.6	mg/kg		2.314	mg/kg	0.000231 %	✓	
26		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
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<LOD
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		6.7	mg/kg	1.579	9.419	mg/kg	0.000942 %	✓	
29		pH			PH		9	pH		9	pH	9pH		
30		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		17	mg/kg	1.245	18.833	mg/kg	0.00188 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
42		monohydric phenols											
				P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
43		vanadium { divanadium pentaoxide; vanadium pentoxide }											
		023-001-00-8	215-239-8	1314-62-1		9.9	mg/kg	1.785	15.729	mg/kg	0.00157 %	✓	
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane											
		603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
45		aniline											
		612-008-00-7	200-539-3	62-53-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]											
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
47		bis(2-chloroethyl) ether											
		603-029-00-2	203-870-1	111-44-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
48		hexachloroethane											
			200-666-4	67-72-1		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
49		nitrobenzene											
		609-003-00-7	202-716-0	98-95-3		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
50		3,5,5-trimethylcyclohex-2-enone; isophorone											
		606-012-00-8	201-126-0	78-59-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
51		2-nitrophenol											
			201-857-5	88-75-5		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]											
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
53		bis(2-chloroethoxy)methane											
			203-920-2	111-91-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
54		2,4-dichlorophenol											
		604-011-00-7	204-429-6	120-83-2		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
55		4-chloroaniline											
		612-137-00-9	203-401-0	106-47-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol											
		604-014-00-3	200-431-6	59-50-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
57		2,4,6-trichlorophenol											
		604-018-00-5	201-795-9	88-06-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
58		2,4,5-trichlorophenol											
		604-017-00-X	202-467-8	95-95-4		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
59		2-methyl naphthalene											
			202-078-3	91-57-6		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
60		2-chloronaphthalene											
			202-079-9	91-58-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
61		dimethyl phthalate											
			205-011-6	131-11-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
62		2,6-dinitrotoluene											
		609-049-00-8	210-106-0	606-20-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]											
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**

#		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									
64		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
65		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									
114		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-016-00-4	204-427-5	120-80-9									
115		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-037-00-9	203-606-5	108-68-9									
116		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-029-00-5	201-969-4	90-15-3									
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									

#		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							
118		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
119		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
								Total:	0.00893 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH06-20-30112021-17.00

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

Sample details

Sample name:
MPBH06-20-30112021-17.00
Moisture content:
11%
(wet 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% Wet 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		pH			PH		9	pH		9	pH	9pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		9	mg/kg	1.85	14.815	mg/kg	0.00148 %	✓	
											Total:	0.00148 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH05-2-01122021-0.60

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

Sample details

Sample name:
MPBH05-2-01122021-0.60
Moisture content:
8.6%
(wet 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: 8.6% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4		TPH (C6 to C40) petroleum group			TPH		17 mg/kg		15.538 mg/kg	0.00155 %	✓	
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
									Total:	0.00155 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00155%)

Classification of sample: MPBH09-1-01122021-0.80

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

Sample details

Sample name:
MPBH09-1-01122021-0.80
Moisture content:
8.6%
(wet 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: 8.6% Wet 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		acenaphthene		201-469-6	83-32-9		2	mg/kg		1.828	mg/kg	0.000183 %	✓	
2		acenaphthylene		205-917-1	208-96-8		1.5	mg/kg		1.371	mg/kg	0.000137 %	✓	
3		anthracene		204-371-1	120-12-7		3.7	mg/kg		3.382	mg/kg	0.000338 %	✓	
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	9.654	mg/kg	0.000965 %	✓	
5		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		7.8	mg/kg		7.129	mg/kg	0.000713 %	✓	
6		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		7	mg/kg		6.398	mg/kg	0.00064 %	✓	
7		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		7.5	mg/kg		6.855	mg/kg	0.000686 %	✓	
8		benzo[ghi]perylene		205-883-8	191-24-2		4.1	mg/kg		3.747	mg/kg	0.000375 %	✓	
9		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.5	mg/kg		3.199	mg/kg	0.00032 %	✓	
10		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78	mg/kg	2.775	1.979	mg/kg	0.000198 %	✓	
11		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3	mg/kg	13.43	3.683	mg/kg	0.000368 %	✓	
12		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
13		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27	mg/kg	1.462	36.068	mg/kg	0.00361 %	✓	
14		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
15		chrysene	601-048-00-0	205-923-4	218-01-9		8	mg/kg		7.312	mg/kg	0.000731 %	✓	
16		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.126	18.523	mg/kg	0.00185 %	✓	

#		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
17		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
18		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1	mg/kg		0.914	mg/kg	0.0000914 %	✓	
19		fluoranthene		205-912-4	206-44-0		17	mg/kg		15.538	mg/kg	0.00155 %	✓	
20		fluorene		201-695-5	86-73-7		2.7	mg/kg		2.468	mg/kg	0.000247 %	✓	
21		indeno[123-cd]pyrene		205-893-2	193-39-5		3.4	mg/kg		3.108	mg/kg	0.000311 %	✓	
22		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	26	mg/kg		23.764	mg/kg	0.00238 %	✓	
23		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**
24		naphthalene	601-052-00-2	202-049-5	91-20-3		4.3	mg/kg		3.93	mg/kg	0.000393 %	✓	
25		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		25	mg/kg	1.579	36.092	mg/kg	0.00361 %	✓	
26		pH			PH		9.7	pH		9.7	pH	9.7 pH		
27		phenanthrene		201-581-5	85-01-8		20	mg/kg		18.28	mg/kg	0.00183 %	✓	
28		pyrene		204-927-3	129-00-0		18	mg/kg		16.452	mg/kg	0.00165 %	✓	
29		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**
30		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		40	mg/kg	1.245	45.507	mg/kg	0.00455 %	✓	
31		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
32		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		28	mg/kg	1.785	45.686	mg/kg	0.00457 %	✓	
											Total:	0.033 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MPBH09-3-01122021-3.80

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

Sample details

Sample name:
MPBH09-3-01122021-3.80
Moisture content:
8.1%
(wet 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: 8.1% Wet 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		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4		anthracene		204-371-1	120-12-7		0.35 mg/kg		0.322 mg/kg	0.0000322 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5 mg/kg	1.32	6.067 mg/kg	0.000607 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.83 mg/kg		0.763 mg/kg	0.0000763 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.65 mg/kg		0.597 mg/kg	0.0000597 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.71 mg/kg		0.652 mg/kg	0.0000652 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.36 mg/kg		0.331 mg/kg	0.0000331 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.68 mg/kg	2.775	1.734 mg/kg	0.000173 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.703 mg/kg	0.00037 %	✓	
14		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**
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23 mg/kg	1.462	30.893 mg/kg	0.00309 %	✓	

#		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
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		0.83	mg/kg		0.763	mg/kg	0.0000763 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21	mg/kg	1.126	21.729	mg/kg	0.00217 %	✓	
19		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
20		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
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		1.7	mg/kg		1.562	mg/kg	0.000156 %	✓	
23		fluorene		201-695-5	86-73-7		0.22	mg/kg		0.202	mg/kg	0.0000202 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	10	mg/kg		9.19	mg/kg	0.000919 %	✓	
26		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
27		naphthalene	601-052-00-2	202-049-5	91-20-3		0.54	mg/kg		0.496	mg/kg	0.0000496 %	✓	
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		40	mg/kg	1.579	58.062	mg/kg	0.00581 %	✓	
29		pH			PH		8.8	pH		8.8	pH	8.8 pH		
30		phenanthrene		201-581-5	85-01-8		1.7	mg/kg		1.562	mg/kg	0.000156 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		pyrene		204-927-3	129-00-0		1.7	mg/kg		1.562	mg/kg	0.000156 %	✓	
33		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
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36		TPH (C6 to C40) petroleum group			TPH		250	mg/kg		229.75	mg/kg	0.023 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		37	mg/kg	1.245	42.324	mg/kg	0.00423 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				26	mg/kg	1.785	42.655	mg/kg	0.00427 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
45		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
46		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
47		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
48		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
49		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
50		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
51		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
52		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
53		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
54		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
55		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
56		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
57		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
58		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
59		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
60		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
61		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
62		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
63		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
64		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
65		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
66		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
67		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
68		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
69		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
70		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
71		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
72		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
73		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
74		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
75		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
76		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
77		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
78		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
79		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
80		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
81		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
82		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
83		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
84		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
85		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
86		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
87		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
88		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
89		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
90		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
91		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
92		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
93		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
94		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
95		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
96		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
97		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
98		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
99		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
100		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
101		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
102		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
103		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
104		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
105		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
106		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
107		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
108		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
109		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
110		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
111		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
112		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
113		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									
114		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-016-00-4	204-427-5	120-80-9									
115		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-037-00-9	203-606-5	108-68-9									
116		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-029-00-5	201-969-4	90-15-3									
117		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									

#		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							
118		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]							
119		cumene; [1] propylbenzene [2]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]							
								Total:	0.047 %		

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
	This determinand is defined in the EU CLP Table 3
<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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.023%)

Classification of sample: MPBH04-4-01122021-4.80

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

Sample details

Sample name:
MPBH04-4-01122021-4.80
Moisture content:
14%
(wet 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% Wet 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	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2	●	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	●	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	●	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.34 mg/kg		0.292 mg/kg	0.0000292 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.25 mg/kg		0.215 mg/kg	0.0000215 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.22 mg/kg		0.189 mg/kg	0.0000189 %	✓	
9	●	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.22 mg/kg		0.189 mg/kg	0.0000189 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		0.27 mg/kg		0.232 mg/kg	0.0000232 %	✓	
12		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**
13	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
14	●	fluoranthene		205-912-4	206-44-0		0.53 mg/kg		0.456 mg/kg	0.0000456 %	✓	
15	●	fluorene		201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
16	●	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
17		naphthalene	601-052-00-2	202-049-5	91-20-3		0.27 mg/kg		0.232 mg/kg	0.0000232 %	✓	
18	●	phenanthrene		201-581-5	85-01-8		0.52 mg/kg		0.447 mg/kg	0.0000447 %	✓	

#		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									
19		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				0.49	mg/kg		0.421	mg/kg	0.0000421 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
22		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
71		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
72		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
73		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
74		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
75		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
77		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
78		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
79		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
80		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
81		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
82		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									
83		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
84		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
85		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
86		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
87		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
88		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
89		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
97		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
98		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-016-00-4	204-427-5	120-80-9									
99		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-037-00-9	203-606-5	108-68-9									
100		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-029-00-5	201-969-4	90-15-3									
101		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
102		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
103		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.00202 %		

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: MPBH04-22-01122021-6.20

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

Sample details

Sample name:
MPBH04-22-01122021-6.20
Moisture content:
14%
(wet 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% Wet 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		pH			PH		8.5 pH		8.5 pH	8.5 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		53 mg/kg	1.85	84.303 mg/kg	0.00843 %	✓	
									Total:	0.00843 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH11-3-02122021-3.70

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

Sample details

Sample name:
MPBH11-3-02122021-3.70
Moisture content:
7.2%
(wet 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.: 0.251%)

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.: 0.251%)

Determinands

Moisture content: 7.2% Wet 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	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		**<LOD**
2	●	acenaphthene		201-469-6	83-32-9		9.9 mg/kg		9.187 mg/kg	0.000919 %	✓	
3	●	acenaphthylene		205-917-1	208-96-8		45 mg/kg		41.76 mg/kg	0.00418 %	✓	
4	●	anthracene		204-371-1	120-12-7		100 mg/kg		92.8 mg/kg	0.00928 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		0.01 mg/kg		0.0092 mg/kg	0.000000928 %	✓	
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		130 mg/kg		120.64 mg/kg	0.0121 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		87 mg/kg		80.736 mg/kg	0.00807 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		100 mg/kg		92.8 mg/kg	0.00928 %	✓	
9	●	benzo[ghi]perylene		205-883-8	191-24-2		75 mg/kg		69.6 mg/kg	0.00696 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		39 mg/kg		36.192 mg/kg	0.00362 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
11		chrysene				93	mg/kg		86.304	mg/kg	0.00863 %	✓	
		601-048-00-0	205-923-4	218-01-9									
12		dibenz[a,h]anthracene				16	mg/kg		14.848	mg/kg	0.00148 %	✓	
		601-041-00-2	200-181-8	53-70-3									
13		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
14		fluoranthene				370	mg/kg		343.36	mg/kg	0.0343 %	✓	
			205-912-4	206-44-0									
15		fluorene				40	mg/kg		37.12	mg/kg	0.00371 %	✓	
			201-695-5	86-73-7									
16		indeno[123-cd]pyrene				69	mg/kg		64.032	mg/kg	0.0064 %	✓	
			205-893-2	193-39-5									
17		naphthalene				37	mg/kg		34.336	mg/kg	0.00343 %	✓	
		601-052-00-2	202-049-5	91-20-3									
18		phenanthrene				410	mg/kg		380.48	mg/kg	0.038 %	✓	
			201-581-5	85-01-8									
19		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				310	mg/kg		287.68	mg/kg	0.0288 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
22		toluene				0.012	mg/kg		0.0111	mg/kg	0.00000111 %	✓	
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				2700	mg/kg		2505.6	mg/kg	0.251 %	✓	
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		xylene				0.076	mg/kg		0.0705	mg/kg	0.00000705 %	✓	
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				38	mg/kg		35.264	mg/kg	0.00353 %	✓	
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				32	mg/kg		29.696	mg/kg	0.00297 %	✓	
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				22	mg/kg		20.416	mg/kg	0.00204 %	✓	
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				11	mg/kg		10.208	mg/kg	0.00102 %	✓	
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
61		1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4							
62		1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6							
63		1,2,3-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6							
64		1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6							
65		1,2-dibromoethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4							
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1							
67		1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5							
68		1,3-dichlorbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1							
69		1,3-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9							
70		1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7							
71		2,2-dichloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7							
72		bromodichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4							
73		bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9							
74		bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1							
75		n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8							
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
77		chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7							
78		carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5							
79		chloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3							
80		chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3							
81		chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3							
82		dibromochloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1							
83		1,2-dibromo-3-chloropropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8							
84		dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3							
85		hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3							
86		4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6							
87		sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8							
88		styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5							
89		trans-1,3-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
90		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
91		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
92		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
93		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
94		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
95		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
96		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
97		resorcinol; 1,3-benzenediol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-010-00-1	203-585-2	108-46-3									
98		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-016-00-4	204-427-5	120-80-9									
99		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-037-00-9	203-606-5	108-68-9									
100		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-029-00-5	201-969-4	90-15-3									
101		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
102		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
103		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.44 %		

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)
<LOD	Below limit of detection
ND	Not detected

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinands:

benzene: (conc.: 9.28e-07%)
toluene: (conc.: 1.11e-06%)

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

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.251%)

xylene: (conc.: 7.05e-06%)

Classification of sample: MPBH11-4-02122021-4.80

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

Sample details

Sample name:
MPBH11-4-02122021-4.80
Moisture content:
13%
(wet 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% Wet 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	●	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
2	●	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
3	●	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
4	●	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.235 mg/kg	0.0000235 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
9	●	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.15 mg/kg		0.13 mg/kg	0.000013 %	✓	
11		chrysene	601-048-00-0	205-923-4	218-01-9		0.27 mg/kg		0.235 mg/kg	0.0000235 %	✓	
12		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**
13	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
14	●	fluoranthene		205-912-4	206-44-0		0.68 mg/kg		0.592 mg/kg	0.0000592 %	✓	
15	●	fluorene		201-695-5	86-73-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
16	●	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<**LOD**
17		naphthalene	601-052-00-2	202-049-5	91-20-3		0.5 mg/kg		0.435 mg/kg	0.0000435 %	✓	
18	●	phenanthrene		201-581-5	85-01-8		0.92 mg/kg		0.8 mg/kg	0.00008 %	✓	

#		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									
19		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
20		pyrene				0.6	mg/kg		0.522	mg/kg	0.0000522 %	✓	
			204-927-3	129-00-0									
21		tetrachloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
22		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
23		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
24		trichloroethylene; trichloroethene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
25		xylene				<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
26		hexachlorobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
27		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
28		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
29		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
30		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
31		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
32		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
33		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
34		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
35		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
36		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
37		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
38		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									
39		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
40		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
42		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
43		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
44		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
45		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
46		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
47		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
48		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
49		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
50		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
51		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
52		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
53		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
54		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
55		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
56		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
57		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
58		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
59		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
60		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
61		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
62		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
63		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
64		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
65		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
66		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
67		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
68		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									

#		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
69	●	1,3-dichloropropane		205-531-3	142-28-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
70		1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
71	●	2,2-dichloropropane		209-832-0	594-20-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
72	●	bromodichloromethane		200-856-7	75-27-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
73		bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
74		bromobenzene	602-060-00-9	203-623-8	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
75	●	n-butylbenzene		203-209-7	104-51-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
76		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
77		chlorobenzene	602-033-00-1	203-628-5	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
78		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
79		chloroethane	602-009-00-0	200-830-5	75-00-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
80		chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
81		chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
82	●	dibromochloromethane		204-704-0	124-48-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
83		1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
84		dibromomethane	602-003-00-8	200-824-2	74-95-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
85	●	hexachlorobutadiene		201-765-5	87-68-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
86	●	4-isopropyltoluene		202-796-7	99-87-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
87	●	sec-butylbenzene		205-227-0	135-98-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
88		styrene	601-026-00-0	202-851-5	100-42-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
89	●	trans-1,3-dichloropropene		431-460-4	10061-02-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
90	●	tert-butylbenzene		202-632-4	98-06-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
91		bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
92		1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
93	●	1,1,1,2-tetrachloroethane		211-135-1	630-20-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
94	●	trichlorofluoromethane		200-892-3	75-69-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
95		mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
96		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
97		resorcinol; 1,3-benzenediol	604-010-00-1	203-585-2	108-46-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
98		1,2-dihydroxybenzene; pyrocatechol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		604-016-00-4	204-427-5	120-80-9									
99		3,5-xylenol; 3,5-dimethylphenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
		604-037-00-9	203-606-5	108-68-9									
100		1-naphtol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
		604-029-00-5	201-969-4	90-15-3									
101		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
102		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
103		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.00209 %		

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: MPBH11-13-02122021-4.00

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

Sample details

Sample name:
MPBH11-13-02122021-4.00
Moisture content:
7.5%
(wet 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: 7.5% Wet 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		pH			PH		10.9 pH		10.9 pH	10.9 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		<5 mg/kg	1.85	<9.248 mg/kg	<0.000925 %		<**LOD**
									Total:	0.00092 %		

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
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected

Classification of sample: MPBH11-14-02122021-6.80

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

Sample details

Sample name:
MPBH11-14-02122021-6.80
Moisture content:
13%
(wet 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% Wet 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		pH			PH		8.7 pH		8.7 pH	8.7 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		21 mg/kg	1.85	33.792 mg/kg	0.00338 %	✓	
									Total:	0.00338 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH07-17-02122021-16.50

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

Sample details

Sample name:
MPBH07-17-02122021-16.50
Moisture content:
14%
(wet 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% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
4	●	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
									Total:	0.001 %		

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: MPBH07-19-02122021-16.47

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

Sample details

Sample name:
MPBH07-19-02122021-16.47
Moisture content:
9%
(wet 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% Wet 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		pH			PH		8.9 pH		8.9 pH	8.9 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		7.1 mg/kg	1.85	11.95 mg/kg	0.0012 %	✓	
									Total:	0.0012 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH15-10-03122021-2.50

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

Sample details

Sample name:
MPBH15-10-03122021-2.50
Moisture content:
13%
(wet 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% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
4	●	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
									Total:	0.001 %		

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: MPBH09-28-06122021-16.50

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

Sample details

Sample name:
MPBH09-28-06122021-16.50
Moisture content:
11%
(wet 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% Wet 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		pH			PH		7.9 pH		7.9 pH	7.9 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		5.8 mg/kg	1.85	9.547 mg/kg	0.000955 %	✓	
									Total:	0.00095 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH11-23-06122021-18.10

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

Sample details

Sample name:
MPBH11-23-06122021-18.10
Moisture content:
11%
(wet 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% Wet 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	●	pH			PH		8.5 pH		8.5 pH	8.5 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		6.7 mg/kg	1.85	11.029 mg/kg	0.0011 %	✓	
									Total:	0.0011 %		

Key

	User supplied data
●	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
	This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH13-3-06122021-0.60

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

Sample details

Sample name:
MPBH13-3-06122021-0.60
Moisture content:
14%
(wet 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% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				390	mg/kg		335.4	mg/kg	0.0335 %	✓	
				TPH									
5		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		**<LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0335 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0335%)

Classification of sample: MPBH11-24-06122021-18.30

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

Sample details

Sample name:
MPBH11-24-06122021-18.30
Moisture content:
9.6%
(wet 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: 9.6% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	•	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	•	TPH (C6 to C40) petroleum group			TPH		25 mg/kg		22.6 mg/kg	0.00226 %	✓	
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
									Total:	0.00226 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00226%)

Classification of sample: MPBH15-2-03122021-0.50

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

Sample details

Sample name:
MPBH15-2-03122021-0.50
Moisture content:
9.8%
(wet 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% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		601-020-00-8	200-753-7	71-43-2									
2	•	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		601-023-00-4	202-849-4	100-41-4									
3		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		601-021-00-3	203-625-9	108-88-3									
4	•	TPH (C6 to C40) petroleum group				340	mg/kg		306.68	mg/kg	0.0307 %	✓	
				TPH									
5		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		**<LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		**<LOD**
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0307 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0307%)

Classification of sample: MPBH05-4-13122021-2.50

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

Sample details

Sample name:
MPBH05-4-13122021-2.50
Moisture content:
15%
(wet 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% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		0.012	mg/kg		0.0102	mg/kg	0.00000102 %	✓	
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
4	●	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.001 %		

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

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 The sample is not wet and unlikely to be flammable.

Hazard Statements hit:

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

Because of determinand:

benzene: (conc.: 1.02e-06%)

Classification of sample: MPBH05-6-13122021-4.50

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

Sample details

Sample name:
MPBH05-6-13122021-4.50
Moisture content:
14%
(wet 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% Wet 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		pH			PH		8.8 pH		8.8 pH	8.8 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		44 mg/kg	1.85	69.988 mg/kg	0.007 %	✓	
									Total:	0.007 %		

Key

	User supplied data
	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
	This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH13-23-09122021-16.70

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

Sample details

Sample name:
MPBH13-23-09122021-16.70
Moisture content:
0.55%
(wet 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: 0.55% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
4	●	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
									Total:	0.001 %		

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: MPBH13-24-09122021-18.20

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

Sample details

Sample name:
MPBH13-24-09122021-18.20
Moisture content:
11%
(wet 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% Wet 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		pH			PH		7	pH		7	pH	7pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		17	mg/kg	1.85	27.984	mg/kg	0.0028 %	✓	
											Total:	0.0028 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH701-4-16122021-2.50

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

Sample details

Sample name:
MPBH701-4-16122021-2.50
Moisture content:
14%
(wet 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% Wet 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	●	pH			PH		8.9 pH		8.9 pH	8.9 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		42 mg/kg	1.85	66.806 mg/kg	0.00668 %	✓	
									Total:	0.00668 %		

Key

	User supplied data
●	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
	This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH702-19-16122021-21.60

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

Sample details

Sample name:
MPBH702-19-16122021-21.60
Moisture content:
12%
(wet 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% Wet 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		pH			PH		8.5 pH		8.5 pH	8.5 pH		
2		magnesium { magnesium phosphide; trimagnesium diphosphide }	015-005-00-3	235-023-7	12057-74-8		7.9 mg/kg	1.85	12.858 mg/kg	0.00129 %	✓	
									Total:	0.00129 %		

Key

- User supplied data
- 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
- This determinand is defined in the EU CLP Table 3

Classification of sample: MPBH702-26-16122021-19.80

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

Sample details

Sample name:
MPBH702-26-16122021-19.80
Moisture content:
10%
(wet 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: 10% Wet 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		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
2	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
3		toluene	601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
4	●	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<**LOD**
5		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<**LOD**
6		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<**LOD**
									Total:	0.001 %		

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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 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

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

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

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

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

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

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

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

GB MCL index number: 082-001-00-6
Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2
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 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

pH (CAS Number: PH)

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

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

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 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

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

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

EU CLP index number: 023-001-00-8
Description/Comments:
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Hazard Statements: Muta. 2; H341 , Repr. 2; H361d , STOT RE 1; H372 , Acute Tox. 4; H332 , Acute Tox. 4; H302 , STOT SE 3; H335 , 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

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

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

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/a
Data source date: 14 Oct 2016
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

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

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

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

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

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

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

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

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

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

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

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

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

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

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

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

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

magnesium phosphide; trimagnesium diphosphide (EC Number: 235-023-7, CAS Number: 12057-74-8)

EU CLP index number: 015-005-00-3
Description/Comments:
Data source: Commission Regulation (EU) No 944/2013 - 5th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP5)
Hazard Statements: Water-react. 1; H260 , Acute Tox. 2; H300 , Acute Tox. 3; H311 , Acute Tox. 1; H330 , Aquatic Acute 1; H400 (M=100) , EUH029 , EUH032 , Water-react. 1; H260 >= 0.3 % , EUH032 >= 0.3 % , EUH029 >= 0.3 %
Reason for additional Hazards Statement(s):
14 Dec 2015 - Water-react. 1; H260 >= 0.3 % hazard statement sourced from: WM3, Table C3.2
14 Dec 2015 - EUH032 >= 0.3 % hazard statement sourced from: WM3, Table C12.2
14 Dec 2015 - EUH029 >= 0.3 % hazard statement sourced from: WM3, Table C12.2

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

beryllium {beryllium oxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

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

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

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

Worst case species

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

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

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

Worst case species based on hazard statements

zinc {zinc oxide}

Worst case species based on hazard statements

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species based on hazard statements.

magnesium {magnesium phosphide; trimagnesium diphosphide}

Worst case species based on hazard statements.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2022.25.4995.9469 (25 Jan 2022)
HazWasteOnline Database: 2022.25.4995.9469 (25 Jan 2022)

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 G Preliminary Geotechnical Risk Register

Geotechnical Hazard Identification – Desk Study Stage

Potential geotechnical hazards have been assessed in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622. The following pages set out the identified geotechnical risks and hazards which are associated with the proposed development and establish the approach which is to be taken to manage the risks including the geotechnical input and analysis.

Table J.1 is a preliminary assessment of possible geotechnical hazards at the site at Desk Study stage. This information is used to assist with ground investigation design.

Table J.1: Possible geotechnical hazards

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Uncontrolled Made Ground (variable strength and compressibility).	Potentially present on site	✔	-
Soft / loose compressible ground (low strength and high settlement potential).	Potentially present on site	✔	
Shrink swell of the clay fraction of soils under the influence of vegetation.	Potentially present on site	✔	
Variable lateral and vertical changes in ground conditions.	Potentially present on site	✔	
High sulphates present in the soils.	Potentially present on site	✔	
Adverse chemical ground conditions, (e.g. expansive slag).	Unlikely to be present		✔
Obstructions.	Obstructions likely from former development phases	✔	
Existing below ground structures to remain (gas- holder bases etc / gas infrastructure.).	Below round structures known to be present and will remain in-situ	✔	
Shallow groundwater.	Possible in Made Ground	✔	
Changing groundwater conditions.	Possible.	✔	
Risk from erosion.	Unlikely to be present		✔
Risk from flooding.	Unlikely to be present		✔
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	Potentially present on site	✔	
Slope stability issues – general slopes.	Unlikely to be present		✔
Slope stability issues – retaining walls.	Retaining walls present on site on southern and northern boundaries, and separating north and south of site.	✔	
Earthworks – settlement (due to placement of fill on soft / loose ground).	Potential consideration	✔	
Earthworks – poor bearing capacity of new fill.	Potential consideration	✔	
Earthworks – unsuitability of site won material to be reused as fill.	Potential consideration	✔	

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Solution features in Chalk.	Unlikely to be present		✔
Cavities in the Superficial Deposits due to solution features.	Unlikely to be present		✔
Dissolution (associated with “wet rock head”).	Unlikely to be present		✔
Brine extraction.	Unlikely to be present		✔
Mining.	Coal Authority online Interactive map indicates site is located within a Coal Authority designated 'Coal Mining Reporting Area' but not within a 'Development High Risk Area'.	✔	
Cambered ground with gulls possibly present.	Unlikely to be present		✔
Relict Slip Surfaces.	Unlikely to be present		✔
Solifluction.	Unlikely to be present		✔
Problematic soils (silts and rewetting etc.).	Unlikely to be present		✔
Unexploded Ordnance	The online Zetica UXO risk map indicates a moderate UXO risk and that the site itself may have been a Luftwaffe target in WWII.	✔	

Geotechnical Hazard Identification – Following Ground Investigation

The preliminary Geotechnical Risk Register following Ground Investigation is set out in Table J.3.

The probability and impact of a hazard have been judged on a qualitative scale as set out in Table J.2. The degree of risk (R) is determined by combining tan assessment of the probability (P) of the hazard occurring with an assessment of the impact (I) of the hazard and associated mitigation it will require if it occurs (R = P x I).

Table J.2: Qualitative assessment of hazards and risks

P = Probability			I = Impact			R = Risk Rating (P x I)	
1	Very unlikely (VU)		1	Very Low		1 – 4	None / negligible
2	Unlikely (U)		2	Low		5 – 9	Minor
3	Plausible(P)		3	Medium		10 – 14	Moderate
4	Likely (Lk)		4	High		15 – 19	Substantial
5	Very Likely (VLk)		5	Very High		20 - 25	Severe

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Uncontrolled Made Ground (variable strength and compressibility).	There is Made Ground due to historical construction activity at the site. The Made Ground is up to 5.0m thick in the north of the site due to the cut to fill that has occurred at the site.	Apartment buildings.	Bearing capacity failure, settlement (total and differential).	4	4	16	Construct piled foundations for buildings and associated retaining walls such that loads can be transferred to more suitable bearing strata at depth, i.e., Chester Formation sandstone.
			Floor slab failure.	4	4	16	Design floor slabs as suspended.
		Roads and Pavements.	Settlement (total and differential) of roads and pavements.	4	2	8	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils and/ or utilise band drains to speed up settlement times. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		Services.	Settlement (differential), causing damage to services.	4	2	8	Anticipated settlements are significant with regard to services. There is a requirement to improve the Made Ground prior to installation of services. It is also advisable to steepen falls in drainage to prevent back fall and use rocker boxes and flexible couplings.
		External areas.	Settlement (differential), in external areas.	4	2	8	Ground levels are being raised and settlements are anticipated to be significant. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	4	3	12	Where soft spots encountered, over-excavation and replacement with suitable fill. Outline design of working platform to include geo-grid. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Cont……

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Soft / loose ground (low strength and high settlement potential).	The Made Ground consists of sand and gravel with a loose relative density and in some locations soft clay.	Apartment buildings and associated retaining walls.	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Construct piled foundations for buildings and associated retaining walls such that loads can be transferred to more suitable bearing strata at depth, i.e., Chester Formation sandstone.
			Floor slab failure.	4	4	16	Design floor slab as suspended.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	4	3	12	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils and/ or utilise band drains to speed up settlement times. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		Services.	Settlement (differential), causing damage to services.	4	3	12	Ground levels are being raised and settlements are anticipated to be significant. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		External areas.	Settlement (differential), in external areas.	4	3	12	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	4	3	12	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Cont.....

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Shrinkage / swelling of the clay fraction of soils under the influence of vegetation.	The Glacial Till clays are medium heave potential.	Foundations.	Shrinkage or heave of soils and associated damage to foundations.	3	3	9	Design foundations in accordance with NHBC standards. Deepen foundations due to trees as appropriate.
		Floor slabs.	Floor slab failure.	3	4	12	Design floor slabs in accordance with NHBC standards. Design floor slab as suspended with a void, unless the warranty provider is satisfied the soil is not desiccated, or slabs are constructed when soils are not seasonally desiccated (i.e., during winter and spring).
Variable lateral and vertical changes in ground conditions.	The Made Ground soils vary laterally and vertically, both in composition and strength. The Chester Formation bedrock was shown to vary laterally and vertically between a weak friable sandstone to a medium strength sandstone.	Apartment buildings and associated retaining walls.	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Construct piled foundations for buildings and associated retaining walls such that loads can be transferred to more suitable bearing strata at depth, i.e., Chester Formation sandstone. Pile design to account for variable strength sandstone and reduced skin friction and bearing capacity due to presence of weathered sandstone bands and weak friable sandstone layers. Pile static load testing regime to be implemented to verify pile design on site.
			Floor slab failure.	3	4	12	Design floor slab as suspended.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	4	3	12	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace unsuitable soils. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		Services.	Settlement (differential), causing damage to services.	4	3	12	Ground levels are being raised and settlements are anticipated to be significant. Ground improvement may be required to reduce post construction settlements to tolerable levels.
		External areas.	Settlement (differential), in external areas.	3	3	9	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Sulphates present in the soils.	The ground investigation has proven that there is the potential for expansive sulphate bearing soils to be present.	Attack of buried concrete.	Damage to concrete and reduction in strength.	4	4	16	Classify concrete in accordance with BRE SD1 and design concrete accordingly.
		Earthworks.	Sulphate heave following the use of hydraulic binders.	4	4	16	Supplementary sulphate testing in accordance with BRE guidelines to be undertaken during earthworks. Before the use of hydraulic binders is approved, comprehensive testing and design will need to be completed by a Specialist Contractor to satisfy both themselves and the Engineer of the suitability of the soils for treatment, and confirm that the requisite end-performance of the material is achievable. The use of modification / stabilisation to be restricted to suitable materials following laboratory trials. In all instances where improvement by the inclusion of binders is considered, a mix design is required and as part of this design, samples should be checked for swelling, even where very low sulphate values are recorded.
Obstructions.	Obstructions have been proven by the investigation and there is a potential for additional obstructions to be present due to historical construction activity, or unknown fill in Made Ground.	Construction staff, vehicles and plant operators.	Risk of collapse of excavation as obstructions are pulled out.	4	3	12	Undertake Enablement Works and remove all obstructions.
		Roads and Pavements.	Hard spots in externals and roads / pavements.	4	2	8	
		Apartment buildings.	Impact on piling, resulting in additional piles / columns and re-design of foundations.	5	3	15	
Cont.....							

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Existing below ground structures/ infrastructure, some which will remain.	There is existing gas mains and a radio mast in the east of the site and electrical substation and gas infrastructure in the west. Retaining walls are present along the northern and southern boundaries.	Adjacent foundations.	Foundation bearing capacity failure, settlement (differential).	3	4	12	Undertake geotechnical design to ensure the proposed structures do not place additional load on the existing structures / not result in settlement of the existing foundations. Design to be undertaken in accordance with EC7. Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Design to include recommendations for inspection of excavations. No person entry to unsupported excavations.
		Gas infrastructure	Damage to gas mains/ infrastructure. Delays in construction and increased costs caused by requirement to reinstate.	3	4	12	Undertake early consultation with the utility management company. All works are designed with close liaison with the utility management company. Contractor to consider risk to working practices and highlight preventative actions in appropriate method statements and risk assessments for the works. Contractor to adopt risk through suitable works planning.
		Risk to the health and safety of construction workforce.		3	5	15	Ensure service records are available within construction documentation. Implement on site protocol for checking for infrastructure prior to any excavation works.
Shallow groundwater and changing groundwater	Monitoring during the ground investigations has proven a shallow groundwater table (at approximately 1.4m bgl), with seasonal variations in levels likely	Construction staff, vehicles and plant operators.	Difficulty with excavation. Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	4	3	12	Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Designer to consider in their analysis the impact of, and requirements for, de-watering of excavations. Any water that collects at the base of excavations to be removed as soon as practicable.
		Slopes and Retaining.	Serviceability issues.	3	3	9	Contractor to appoint competent Temporary Works Designer to design temporary works, as required in accordance with BS 5975:2008+A1:2011. The shallow groundwater is to be taken into account during geotechnical design of the permanent works. Design drainage for retaining walls to account for fluctuating groundwater levels. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.	The ground investigation has indicated that there is a potential for loose soils and Made Ground to be present at the site.	Construction staff, vehicles and plant operators.	Ground failure, instability of plant and machinery.	3	4	12	As instability has been noted in all pits from surface, foundation options should be reviewed to ensure minimal excavation (e.g., piles). Contractor to appoint competent Temporary Works Designer to design temporary works, in accordance with BS 5975:2008+A1:2011. Temporary Works Design to include recommendations for inspection of excavations. No person entry to unsupported excavations.
			Risk of collapse of excavation.	3	4	12	
Slope stability issues – retaining walls.	The site is on sloping ground and the proposed development requires retaining walls to be constructed.	Apartment buildings.	Serviceability issues.	3	4	12	Design of the retaining to be undertaken in accordance with EC7. Adequate drainage to be designed behind the structure, or for water seepage through the face of the wall. Lateral earth pressure parameters to be characterised during design. Engineered fill requirements to be defined at outline design stage.
		Pavement construction and long-term durability highways and external areas.	Serviceability issues.	3	3	9	
		External areas.	Serviceability issues.	3	2	6	
		Construction staff, vehicles and plant operators.	Potential for future movements / collapse.	3	4	12	

Cont……

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Earthworks – Settlement (due to placement of fill on soft / loose ground / Deep Made Ground).	Levels are increasing across parts of the site which will lead to settlement of underlying Made Ground and Glacial Till.	Apartment buildings.	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Construct piled foundations for buildings and associated retaining walls such that loads can be transferred to more suitable bearing strata at depth, i.e., Chester Formation sandstone. Pile design to consider negative skin friction.
			Floor slab failure.	3	4	12	Design floor slab as suspended.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	4	3	12	Settlements are anticipated to be significant with regard to roads and pavements. Undertake ground improvement (pre-load and surcharge / rolling dynamic compaction / dynamic compaction / over-excavation and replacement) to reduce settlements. Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate.
		Services.	Settlement (differential), causing damage to services.	4	3	12	Settlements are anticipated to be significant with regard to services. Detailed design works are required to assess the impact and design mitigation measures.
		External areas.	Settlement (differential), in external areas.	3	3	9	Assess the use of geogrids as part of the design process. Undertake ground improvement (pre-load and surcharge / rolling dynamic compaction / dynamic compaction / over-excavation and replacement) to reduce settlements.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	4	3	12	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Outline design of working platform to include geo-grid if necessary. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Cont……

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Earthworks – poor bearing capacity and / or settlement of new fill.	There is a requirement for cut to fill to create the development. This will require reuse of soils excavated from the site.	Apartment buildings.	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Construct piled foundations for buildings and associated retaining walls such that loads can be transferred to more suitable bearing strata at depth, i.e., Chester Formation sandstone.
			Floor slab failure.	3	4	12	Design floor slab as suspended.
		Roads and Pavements.	Settlement (total and differential).	4	3	12	Minimum engineering performance to be defined in an Earthworks Specification. Earthworks to be designed in accordance with 1) Manual of Contract Documents for Highway Works (MCHW), Volume 1; 2) Specification for Highway Works (SHW) Series 600; 3) 6031:2009, Code of practice for earthworks; and 4) BS 8000-1, workmanship on building sites. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification.
		Services.	Settlement (differential), causing damage to services.	4	3	12	
		External areas.	Settlement (differential), in external areas.	3	3	9	
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	4	3	12	
Earthworks – Unsuitability of site won material to be reused as fill.	There is a requirement for cut to fill to create the development. This will require reuse of soils excavated from the site.	Earthwork's control, inability to place and compact fill.	Service limit state failure, excessive and intolerable total and differential settlement.	4	3	12	The design is to describe the processes required to produce suitable fill for reuse. Contractor to design site control measures, plant, equipment and arrangement to comply with processing requirements. Site testing to be undertaken to confirm the works are in accordance with the design. A suitable watching brief and independent verification. Adequate investigation required of soil types and characterisation of the soils to be undertaken during investigation. Some fill may be unsuitable for use.
		Project Budgets - Insufficient fill to complete earthworks.	Additional Costs, due to importation of fill or having to modify designs.	4	2	8	

Cont……

Hazard	Comments	Who is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Unforeseen ground conditions - risk associated with limited data.	Ground investigation has been undertaken. However, additional information will be obtained during construction. Ground conditions are only defined at exploratory hole locations.	All aspects of the development		3	4	12	Designers to be contacted if conditions encountered are different to those identified during investigation. Regular inspections of excavations and earthworks for evidence of stability. Adequate investigation required to characterise the site and understand the potential risks.
Unexploded Ordnance	The online Zetica UXO risk map indicates a moderate UXO risk and that the site itself may have been a Luftwaffe target in WWII.	All aspects of the development		3	4	12	A specialist UXO risk assessment in accordance with CIRIA Report C681 should be undertaken prior to any construction and/or intrusive remediation activities.

Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construct.

Appendix H Plausible Source-Pathway-Receptor Contaminant Linkages

Summary of Potential Contaminant Linkages:

Table K.2 lists the plausible contaminant linkages which have been identified. These are considered as potentially unacceptable risks in line with guidelines published in LCRM (2019) and additional risk assessment is required.

Source – Pathway – Receptor Linkages have been assessed in general accordance with guidance in CIRIA Report C552 (Rudland et al 2001) but modified to add a 'no linkage' category and to remove low/moderate risk (See Table K.1). Further information is given in the relevant Hydrock methodology, referenced in Appendix I, including descriptions of typical examples of probability and consequences.

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to site demolition and redevelopment workers, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

Table K.1: Consequence versus probability assessment.

		Consequence			
Probability		Severe	Medium	Mild	Minor
	High Likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Very low risk
	Low Likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Very low risk
	No Linkage	No risk			

Table K.2: Exposure model – final source-pathway-receptor contaminant linkages

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Pervasive arsenic and PAH in the Made Ground.	Ingestion	Site users.	Likely	Medium	Moderate	There is Made Ground below the entire site containing pervasive arsenic and PAH significantly exceeding GACs Contact with these materials is likely in soft landscaping areas. Mitigation measures will be required in form of a simple cover system to break the SPR linkage.
Asbestos fibres in soil or asbestos-containing materials in the Made Ground	Inhalation of fugitive dust.	Human health.	Low Likelihood	Severe	Moderate	There is Made Ground below the entire site, and localised suspected ACM and asbestos fibres have been proven to be present in the soil. The risk of significant generation of dust is likely only during site development process and can therefore be controlled. Suppression should be included in control measures. There is suspected ACM present on site, so works to be undertaken in accordance with CAR 2012. Mitigation measures will be required in form of a simple cover system to break the SPR linkage.
Petroleum hydrocarbons within the Made Ground or visual of olfactory evidence of hydrocarbon contamination	Ingestion, inhalation.	Human health.	Likely	Medium	Moderate	Mitigation measures will be required in form of a simple cover system to break the SPR linkage. Installation of vapour resistant membrane to protect against inhalation of potentially low-end volatile hydrocarbon fractions.
	Future abstraction and baseflow, via direct contact with piles.	Humans (abstraction) and the River Irk.	Low Likelihood	Medium	Low	During the investigation areas of elevated petroleum hydrocarbons were encountered within the Made Ground coupled with visual and olfactory evidence of contamination in soils and shallow perched water. Site turnover likely to be up 1.50m to remove obstructions as well as a general strip of the top 0.50m. Known areas of contamination in the top 1.50m should be delineated further and placed outside of the building footprint either beneath hardstanding or used as fill at depth behind retaining walls if geotechnically suitable.

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Ammonium, Total Cyanide, Thiocyanate and hydrocarbons in groundwater in the Chester Formation from offsite sources in phases 3 and 4.	Future abstraction and baseflow.	Humans (abstraction) and the surface waters.	Low Likelihood	Medium	Low	Elevated Ammonium, Total Cyanide, Thiocyanate and hydrocarbons in BH301 offsite on the boundary of phase 1 and 3. Contaminant plume appears to be impacting on the northwest of the Phase 1 area. Further detailed risk assessment required to assess the risk to controlled waters and discussion with the EA regarding the results of the assessment.
Presence of benzene, 1-2-4-Trimethylbenzene and concentrations of SVOC.	Inhalation of VOC via direct contact with piles.	Inhalation of VOC.	Low Likelihood	Severe	Moderate	Concentrations of benzene, 1-2-4-Trimethylbenzene with GACs above indoor pathway found in the Made Ground. Elevated PIDs in excess of background concentrations of ≤20ppm suggestive of further volatiles in the Made Ground. In the absence of bioremediation of the Made Ground, mitigation required by the installation of a VOC vapour membrane in buildings.
Styrene present within WS704 at 1.20m bgl.	Ingestion or inhalation.	Human health.	Low Likelihood	Severe	Moderate	Locally elevated Styrene present within Made Ground in WS704 at 1.20m bgl. It's recommended that the pathway is severed by removal from beneath the building footprint and placement at depth beneath hardstanding or behind the retaining wall if geotechnically suitable. If geotechnically unsuitable the area could be treated as a hotspot with delineation, validation and disposal offsite.
Elevated petroleum hydrocarbon aliphatic and aromatic EC >16-40, BTEX and MTBE at depths of pipework installation.	Direct Contact.	Water Supply.	Low Likelihood	Medium	Low	Exceedance of TPH, BTEX and MTBE above the threshold for PE pipework. Direct contact with buried water supply pipes is therefore likely. Mitigation measures will be required to break the SPR linkage. Installation of "Protectaline" (or similar) pipework likely to be required across the site.

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Asbestos fibres from insulation or asbestos-containing materials in the buildings.	Inhalation of fugitive dust.	On Site	Likely	Severe	High	Asbestos may be present in existing buildings and in Made Ground. Careful removal will be required from buildings during demolition. However, removal under controlled conditions should limit release of fibres to the air and the ground.
		Neighbours.	Unlikely	Severe	Low	
Carbon Monoxide presence within the Glacial Till and Chester Formation forming from anaerobic conditions in the groundwater.	Migration through pathways formed in the soils from piling	Site users.	Unlikely	Medium to Severe	Very low to low	Elevated CO was encountered within boreholes installed into the deeper Glacial Till and Chester Formation. This Is likely acquitted to anaerobic conditions present in the groundwater producing CO. The selection of pile should ensure a seal is formed beneath soils and pile to ensure no vertical migration occurs up the pile length.
		Neighbours.		Medium	Very low	
Buried bituminous materials possibly containing coal tar.	Ingestion or inhalation.	Human Health.	Likely	Medium	Moderate	Significant benzo(a) pyrene concentrations present in the buried bituminous material. More targeted coal tar analysis of the material, placement at depth behind the retaining wall if geotechnically suitable or dispose offsite.

Appendix I

Hydrock Methodologies

This report uses Hydrock Desk Study and Ground Investigation template V47.1.

This appendix provides additional background information on certain approaches and methods used by Hydrock Consultants Limited in the preparation of this report.

The following Hydrock Methodologies apply to this report. These are not included, but are available on request by quoting the methodology reference, revision and date.

Reference	Name	Revision	Date
001	Desk Study	001	30/07/2018
002	Ground Investigation	001	30/07/2018
003	Preliminary Geo-environmental Risk Assessment Rationale	001	30/07/2018
004	Preliminary geotechnical Risk Register	001	30/07/2018
005	Generic Risk Assessment for Human Health (Soils)	001	30/07/2018
006	Generic Risk Assessment for Pollution of Controlled Waters	001	30/07/2018
008	Generic Risk Assessment for Risk to Plants	001	30/07/2018
009	Generic Risk Assessment for Water Supply Pipes	001	30/07/2018
010	Generic Ground Gas Risk Assessment	001	30/07/2018
011	Determination of Contaminated Land Under Part 2A of the Environmental Protection Act 1990	001	30/07/2018
012	Waste Management	001	30/07/2018
013	Materials Management	001	30/07/2018
014	Asbestos in Soils	001	30/07/2018
015	Remediation and Mitigation (New Methodology)	001	30/07/2018
016	Geotechnical Categorization and Characteristic Design Values	001	30/07/2018
017	Foundation and Floor Slab Recommendations - Residential	001	30/07/2018
019	Earthworks Suitability Recommendations	001	30/07/2018
020	Pavements and Pavement Foundations	001	30/07/2018
021	Slope Stability Recommendations	001	30/07/2018
022	Retaining Recommendations	001	30/07/2018
023	Sulphate Recommendations	001	30/07/2018