



Phase 2 Site Investigation Report Proposed New Storage Facility HMG Paints, Collyhurst Road, Manchester

Prepared for HMG Paint Ltd

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Document Origin

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Executive Summary

Client	HMG Paints Ltd
Location	HMG Paints, Collyhurst Road, Manchester M40 7RU
Description	The site covers an area of approximately 0.18 hectares and is located on a largely undeveloped area of the larger HMG Paints facility off Collyhurst Road, Manchester. The development area is used for the loading / unloading of delivery vehicles and is surfaced with a mix of soft landscaping and concrete hardstanding. A number of small, steel framed buildings and temporary steel shipping containers are present mainly in the west of the site, located on an area of concrete hardstanding. The main HMG Paints facility surrounds the study area. Beyond the wider HMG Paints facility, potentially contaminative neighbouring land uses include an MOT garage, a coatings plant and a Metrolink sidings and station.
Development	It is proposed to develop the site as a storage facility.
Site History	The site was previously part of Collyhurst Mills. The southern section was occupied by an offshoot of the River Irk, leading up to the mill up until the early 1900's. Subsequent developments at the site included residential housing, mills and part of the larger HMG Paints plant. Surrounding land saw extensive commercial / industrial development including quarrying, mills, railway lines / sidings and chemical works.
Geology	British Geological Survey mapping indicates the site to be underlain the Collyhurst Sandstone Formation. Given its development history, the site is also anticipated to be underlain by significant thicknesses of Made Ground.
Radon	The radon guidance on protective measures for new dwellings indicates that the site is in a 'low' probability radon area where less than 1% of homes are estimated to be at or above the Action Level. Radon gas protection measures are therefore not required in the construction of new dwellings or extensions.
Mining & Ground Stability	The Coal Authority indicates that the site is not located within an area where coal mining presents a significant risk. No further assessment of the potential risk posed by coal mining is considered to be required.
Flood Risk	According to the Flood Map for Planning, available on the gov.uk website, the site is located within Flood Zone 3, whereby there is greater than a 1% (1 in 100) chance of flooding from rivers or the sea occurring each year. If one is not already available, it is recommended that a Flood Risk Assessment is undertaken for the proposed development.
Environmental Setting	The site is underlain a Principal Aquifer, relating to the Collyhurst Sandstone Formation. The site is not located within a groundwater SPZ. However, a groundwater abstraction is indicated to be approximately 150m from the site, used for cooling purposes. The River Irk is present approximately 9m to the west of the site and the Moss Brook runs through the site in a culverted section. Therefore, these Principal Aquifer and watercourses are considered to represent sensitive controlled water receptors. The nearest BGS recorded landfill site is located approximately 86m northwest of the site (Queens Road Tip).

Three Historical Landfill Sites are also indicated to be present within 500m of the site.

UXO

A Detailed UXO Desk Study and Risk Assessment indicated that the risk posed by potential unexploded ordnance beneath the site was low and that no further risk mitigation measures were required prior to undertaking intrusive investigation work.

Site Investigations

The site investigation comprised of two cable percussion boreholes (BH1 and BH2) to depths of approximately 7.00m below ground level (bgl), with rotary core follow on to depths of approximately 13.50m and 15.00m bgl, respectively. 12 window sample boreholes (WS1 to WS12) were undertaken to depths of up to 3.40m bgl. Groundwater and ground gas monitoring wells were installed in boreholes BH01, BH02, WS02, WS05, WS06 and WS07. One trial pit (TP1) was excavated to a depth of approximately 3.60m bgl and four plate load tests undertaken at shallow depth in order to derive California Bearing Ratio (CBR) values.

Ground Conditions

Made Ground was recorded beneath topsoil, or concrete hard surfacing (up to 0.40m in thickness) to depths of up to 2.60m bgl. This was underlain by weathered deposits of the Collyhurst Sandstone Formation.

Contamination

Polycyclic aromatic hydrocarbon (PAH) compounds were recorded in one sample of Made Ground collected from borehole WS09 at concentrations in excess of adopted assessment criteria (AC) protective of commercial site workers. Chrysotile and amosite asbestos fibres were also recorded within this sample. Following redevelopment, the pathways of direct contact, ingestion and inhalation of contaminated dust will not be active in areas covered by building footprint or hard surfacing.

Marginally elevated concentrations of boron, copper and nickel in excess of EQS screening criteria were recorded in groundwater sampled from monitoring wells BH1 and BH2, screened within the Collyhurst Sandstone Formation. Concentrations of PAH compounds in excess of adopted AC were also recorded in groundwater sampled from monitoring well BH2 collected as part of the first sampling visit. However, elevated concentrations of these compounds were not recorded in groundwater sampled from monitoring well BH2, collected as part of a second visit.

Although the site is underlain by a Principal Aquifer and an abstraction is indicated to be present in close proximity to the site, this is used for industrial cooling processes. No licensed potable groundwater abstractions are indicated to be present within 1km of the site. Furthermore, the site is not located within a groundwater SPZ. Given the low sensitivity of the Collyhurst Sandstone Formation Principal Aquifer and the generally low concentrations of contaminants recorded in groundwater, the site is not considered to represent a significant risk to groundwater resource receptors.

Concentrations of copper in downstream samples of the River Irk and Moss Brook were not elevated above those in samples collected from upstream. It is considered that concentrations of copper recorded in samples of groundwater and surface waters are likely representative of natural background concentrations.

Although considered to be very low, concentrations of TPH in water sampled from the River Irk and Moss Brook were slightly higher in downstream samples, than in those collected upstream of the site. Further monitoring of surface water quality would be required to determine whether TPH concentrations were consistently higher in samples collected downstream of the site, which may indicate that pollutants from beneath the site were entering the watercourses. It would also be

prudent to continue monitoring during development to ensure the construction activities do not have a detrimental effect on surface water quality.

Ground Gas

Based on monitoring undertaken at the site to date, the ground gas regime corresponds to CIRIA Characteristic Situation 1 (CS1). On this basis, no gas prevention measures are considered to be required within new structures.

Geotechnical

Given the thickness of Made Ground beneath the site, it is considered that piled foundations would be required to support the proposed development. Driven piles, terminating in the deeper layers of the Collyhurst Sandstone Formation are likely to be most suitable on the subject site from a geotechnical viewpoint. However, the use of displacement piling may be restricted by the Environment Agency (EA), given the presence of the Principal Aquifer beneath the site, and bored piling methods may be required instead. An Environmental Piling Risk Assessment should be undertaken to assess the potential risk posed to groundwater resource receptors by piling and to determine the most appropriate piling method to mitigate this risk.

Groundwater was recorded from depths of approximately 1.78m bgl within wells during monitoring visits to site. Excavations beneath this depth are therefore likely to require groundwater control and exclusion measures.

Testing indicates that that a Design Sulphate Class of DS1 and an Aggressive Chemical Environment for Concrete (ACEC) Classification of AC1 would be required for buried concrete structures in contact with the Made Ground and natural soils.

Waste Characterisation

Based on available information, it is considered likely that the majority of the Made Ground beneath the site will be classified as Non-Hazardous waste and be suitable for disposal to a Non-Hazardous Waste Landfill. Made Ground in the vicinity of borehole BH2 and WS9 would need to be segregated for separate disposal to a Stable Non-Reactive Hazardous Waste Landfill. Natural strata beneath the site would be suitable for disposal to an Inert Waste Landfill.

Any material sent to landfill should be accompanied by the appropriate duty of care documentation and the chemical data should be forwarded to the accepting landfill for approval prior to removal of the soil from site.

Further Works / Considerations

The following should be considered for the proposed development:

- A Flood Risk Assessment should be undertaken, given the positions of the River Irk and Moss Brook and the location of the site in Flood Zone 3.
- Analysis of surface water samples collected from upstream and downstream positions in the River Irk and Moss Brook during development to ensure construction works do not impact surface water quality.
- An Environmental Piling Risk Assessment should be undertaken to assess the risk posed by piling to groundwater resource receptors.

Contents

1.0	Introduction	1
1.1	Background	1
1.2	Objectives	1
1.3	Limitations of the Study	1
2.0	Summary of Previous Phase 1 Preliminary Risk Assessment	2
3.0	Site Investigation	4
3.1	UXO Desk Top Study	4
3.2	Investigation Design & Objectives	4
3.3	Fieldwork	4
3.4	Laboratory Testing	4
4.0	Site Investigation Findings	6
4.1	Ground Conditions & Geotechnical Testing Parameters	6
4.2	Groundwater	6
5.0	Hazardous Ground Gas Assessment	8
5.1	Introduction	8
5.2	Scope of Works	8
5.3	Monitoring Results	8
5.4	Discussion	9
6.0	Tier 1 Contamination Analysis	10
6.1	Human Health Assessment Criteria	10
6.2	Comparison of Soil Analyses to Human Health Assessment Criteria	10
6.3	Groundwater	11
6.4	Surface Water	12
7.0	Contamination Assessment	13
7.1	Introduction	13
7.2	On Site Human Health Receptors	13
7.3	Off-site Human Health Receptors	13
7.4	Construction / Maintenance Workers	13
7.5	Groundwater	13
7.6	Surface Water	14
7.7	Polymeric Utility Pipes	14
7.8	Revised Conceptual Site Model	14
8.0	Geotechnical Assessment	16
8.1	Introduction	16
8.2	Preliminary Geotechnical Risk Register	16
8.3	Foundation Solutions	17
8.4	Floor Slabs	18
8.5	Pavements	18
8.6	Temporary Works and Excavations	18
8.7	Chemical Attack on Buried Concrete	19
9.0	Waste Characterisation	20
9.1	Assessment Criteria	20
9.2	Soil Sampling and Testing	20
9.3	Solid Soil Data	21
9.4	WAC Data	21
9.5	Summary of Results	21
9.6	Waste Management	22
10.0	Conclusions and Recommendations	23

Drawings

Site Location Plan
Proposed Development Plan
Borehole Location Plan

Appendices

Appendix I	Drawings
Appendix II	Exploratory Hole Logs
Appendix III	Chemical Laboratory Test Results
Appendix IV	Geotechnical Laboratory Test Results
Appendix V	Ground Gas Monitoring Records
Appendix VI	CBR Test Results
Appendix VII	Waste Soil Classification

1.0 Introduction

1.1 Background

Clancy Consulting Limited has been instructed by HMG Paints to carry out a Phase 2 Site Investigation on a largely undeveloped area of the larger HMG Paints facility, Collyhurst Road, Manchester M40 7RU. It is proposed to develop the site with a new storage facility, with a ground floor area of approximately 1,424m².

A proposed development plan is included in Appendix I.

1.2 Objectives

The objectives of this investigation are summarised below:

- Undertake intrusive site investigation works to establish the ground conditions across the proposed development area.
- Carry out a geotechnical assessment of the ground conditions and provide preliminary recommendations for foundation design.
- Carry out chemical testing of soil, groundwater and surface water samples to determine the contamination status of the site and assess the potential risk posed to human health, groundwater and surface water receptors.
- Carry out chemical testing of soil samples to characterise arisings from excavations for disposal off-site to landfill.
- Carry out plate load tests in order to derive California Bearing Ratio (CBR) values to assist in pavement design.
- Refine the preliminary risk assessment and conceptual site model undertaken as part of the Phase 1 assessment.
- Provide recommendations regarding the requirement for further investigations or remedial works, if required, to satisfy the Local Planning Authority and to inform detailed civil and structural design.

1.3 Limitations of the Study

Clancy Consulting Limited cannot be held responsible for any omissions, misrepresentation, errors or inaccuracies with the supplied third-party report information. The report is written in the context of an agreed scope of work and budget and should not be used in a different context. New information or improved practices and changes in legislation may require a reinterpretation of the report in whole or in part.

Clancy Consulting Limited reserves the right to amend either conclusions or recommendations in light of any further information that may become available. The report is provided for the sole use of HMG Paints Ltd for the objectives discussed previously only and is confidential to them.

The report may not be relied upon by any other party without prior written consent of Clancy Consulting Limited. Those using this information in subsequent assessments or evaluations do so at their own risk.

It must be noted that whilst this investigation aims to characterise the general ground conditions beneath the proposed development site, Clancy Consulting Ltd cannot be held accountable for variations in ground and groundwater conditions, unidentified contamination or the presence of below ground structures present.

2.0 Summary of Previous Phase 1 Preliminary Risk Assessment

Clancy Consulting Ltd has previously undertaken a Phase 1 Preliminary Risk Assessment for the site:

Phase 1 Preliminary Risk Assessment, Proposed New Storage Facility, HMG Paints, Collyhurst Road, Manchester. Report Ref :10/1938/001 dated August 2021.

This report should be read in conjunction with the above document. A summary of the findings and recommendations from the previous document are presented below:

The site covers an area of approximately 0.18 hectares and is located on a largely undeveloped area of the larger HMG Paints facility off Collyhurst Road, Manchester. The development area is used for the loading / unloading of delivery vehicles and is surfaced with a mix of soft landscaping and concrete hardstanding. A number of small, steel framed buildings and temporary steel shipping containers are present mainly in the west of the site, located on an area of concrete hardstanding.

The main HMG Paints facility surrounds the study area. Beyond the wider HMG Paints facility, potentially contaminative neighbouring land uses include an MOT garage, a coatings plant and a Metrolink sidings and station.

It is proposed to develop the site as a storage facility.

The site was previously part of Collyhurst Mills. The southern section was occupied by an offshoot of the River Irk, leading up to the mill up until the early 1900's. Subsequent developments at the site included residential housing, mills and part of the larger HMG Paints plant.

Surrounding land saw extensive commercial / industrial development including quarrying, mills, railway lines / sidings and chemical works.

British Geological Survey mapping indicates the site to be underlain the Collyhurst Sandstone Formation. Given its development history, the site is also anticipated to be underlain by significant thicknesses of Made Ground.

The radon guidance on protective measures for new dwellings indicates that the site is in a 'low' probability radon area where less than 1% of homes are estimated to be at or above the Action Level. Radon gas protection measures are therefore not required in the construction of new dwellings or extensions.

The Coal Authority indicates that the site is not located within an area where coal mining presents a significant risk. No further assessment of the potential risk posed by coal mining is considered to be required.

According to the Flood Map for Planning, available on the gov.uk website, the site is located within Flood Zone 3, whereby there is greater than a 1% (1 in 100) chance of flooding from rivers or the sea occurring each year. If one is not already available, it is recommended that a Flood Risk Assessment is undertaken for the proposed development.

The site is underlain a Principal Aquifer, relating to the Collyhurst Sandstone Formation. The site is not located within a groundwater SPZ. However, a groundwater abstraction is indicated to be approximately 150m from the site, used for cooling purposes. The River Irk is present approximately 9m to the west of the site and the Moss Brook runs through the site in a culverted section. Therefore, these Principal Aquifer and watercourses are considered to represent sensitive controlled water receptors.

The nearest BGS recorded landfill site is located approximately 86m northwest of the site (Queens Road Tip).

Three Historical Landfill Sites are also indicated to be present within 500m of the site.

Zetica Bomb Risk Mapping indicates the site to be in an area of moderate UXO risk. Therefore, a detailed UXO desk study should be undertaken prior to undertaking intrusive ground investigations.

Given the commercial/industrial nature of the proposed development, predominantly comprising building cover and hard surfacing, the potential risk posed by contamination to future site users is considered to be limited. However, ground gas associated with Made Ground beneath the site and surrounding area may pose a risk to site users in enclosed areas.

The site is located above a Principal Aquifer relating to the Collyhurst Sandstone Formation and the River Irk is located a short distance to the north-northwest. On this basis, contaminants present beneath the site are considered to pose a potentially significant risk to controlled water receptors.

3.0 Site Investigation

3.1 UXO Desk Top Study

In light of the findings of the Phase 1 Preliminary Risk Assessment, a Detailed UXO Desk Study and Risk Assessment was commissioned.

The results indicated that “*No significant sources of UXO hazard have been identified*”. And that “*No records have been found indicating that the site was bombed and no other significant sources of UXO hazard have been identified on the Site*”.

The report indicated that the site is considered to have a low UXO hazard level, and that works could proceed without any further controls in relation to UXO.

3.2 Investigation Design & Objectives

Pollutant linkages identified within the Preliminary Conceptual Site Model are currently active or will be made active upon redevelopment of the site. The investigation design approach was based on guidance provided in BS 10175 Code of Practice for Investigation of Potentially Contaminated Land (2011). The investigation also provided information on ground conditions and data for the assessment geotechnical properties of the strata underlying the site.

It must be noted that whilst this investigation aims to characterise the general ground conditions beneath the proposed development site, Clancy Consulting Ltd cannot be held accountable for variations in ground and groundwater conditions, unidentified contamination or the presence of below ground structures in areas of the site which fall outside our borehole locations.

3.3 Fieldwork

Site investigation works were carried out between 25th and 28th May 2022 and comprised:

- The site investigation comprised of two cable percussion boreholes (BH1 and BH2) to depths of approximately 7.00m below ground level (bgl), with rotary core follow on to depths of approximately 13.50m and 15.00m bgl, respectively.
- 12 window sample boreholes (WS1 to WS12) were undertaken to depths of up to 3.40m bgl.
- Standard penetration testing (SPTs) was undertaken throughout the depth of each borehole.
- Groundwater and ground gas monitoring wells were installed in boreholes BH01, BH02, WS02, WS05, WS06 and WS07.
- One trial pit (TP1) was excavated to a depth of approximately 3.60m bgl
- Four plate load tests undertaken at shallow depth in order to derive California Bearing Ratio (CBR) values.
- Soil samples were collected at regular intervals from each exploratory hole for chemical and geotechnical laboratory analysis.
- Groundwater was sampled from monitoring wells BH1 and BH2 for chemical laboratory analysis on two occasions.
- Surface water samples were collected at upstream and downstream locations from the River Irk and Moss Brook for chemical laboratory analysis on two occasions.

A plan indicating the positions of the exploratory hole boreholes is provided in Appendix I. Exploratory hole logs are provided as Appendix II.

3.4 Laboratory Testing

3.4.1 Environmental Laboratory Testing – Soil

Ten samples of the Made Ground and three samples of the Collyhurst Sandstone Formation were submitted to a UKAS/MCERTS accredited laboratory and analysed for a number of determinands including:

Inorganic Determinands:

pH, arsenic, beryllium, cadmium, chromium, hexavalent chromium, copper, lead, mercury, nickel, sulphate, selenium, vanadium, zinc and asbestos.

Organic Determinands:

Polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) and Volatile Organic Compounds (VOC's).

One sample collected from the Made Ground and one from the Collyhurst Sandstone Formation were also submitted for Waste Acceptance Criteria (WAC) analysis.

Chemical Laboratory Certificates are presented as Appendix III.

3.4.2 Environmental Laboratory Testing – Groundwater

Two samples of groundwater were collected on two occasions from monitoring wells BH1 and BH2, screened across the Collyhurst Sandstone Formation, and submitted to a UKAS/MCERTS accredited laboratory and analysed for a number of determinands including:

Inorganic Determinands:

pH, arsenic, beryllium, cadmium, chromium, hexavalent chromium, copper, lead, mercury, nickel, sulphate, selenium, vanadium, zinc and asbestos.

Organic Determinands:

PAH, TPH and VOCs.

Groundwater was not recorded in monitoring wells installed in boreholes WS02, WS05, WS06 and WS07 and screened in the Made Ground.

3.4.3 Environmental Laboratory Testing – Surface Water

Samples of surface water were collected from the River Irk and Moss Brook in positions upstream and downstream of the site on two occasions, and submitted to a UKAS/MCERTS accredited laboratory and analysed for a number of determinands including:

Inorganic Determinands:

pH, arsenic, beryllium, cadmium, chromium, hexavalent chromium, copper, lead, mercury, nickel, sulphate, selenium, vanadium, zinc and asbestos.

Organic Determinands:

PAH, TPH and VOCs.

3.4.4 Geotechnical Laboratory Testing

Samples collected from the Made Ground, and Collyhurst Sandstone Formation were analysed by a UKAS accredited laboratory for Particle Size Distribution (PSD), pH and water-soluble sulphate content.

Geotechnical Laboratory Certificates are presented as Appendix IV.

4.0 Site Investigation Findings

4.1 Ground Conditions & Geotechnical Testing Parameters

The strata encountered during the intrusive investigation are summarised in the table below and described in the following section.

Table 1 – Encountered Strata

Strata	Depth to Top of Strata m bgl	Thickness (m)
Concrete or tarmac hardstanding	Ground level	0.10 to 0.40
Topsoil	Ground level	0.30
Made Ground Granular	0.10 to 0.40	2.25 to 2.30
Collyhurst Sandstone Formation	2.30 to 2.60	Not proven at a maximum depth of 15.00m bgl

General descriptions of the strata encountered during the intrusive investigation are summarised below. Reference should be made to the borehole logs within Appendix II of this report for full descriptions of ground conditions underlying the site.

4.1.1 Made Ground

Hard surfacing was recorded from ground surface in all but two exploratory hole positions to depths of up to 0.40m bgl. Topsoil was recorded in boreholes WS2 and WS9 to depths of up to 03.0m bgl. Hardstanding and topsoil was underlain by Made Ground in each location.

The Made Ground was variable in nature, but typically comprised brown to grey sandy, gravel with a variable cobble and gravel content. Gravel comprised fine to coarse brick, concrete, clinker, slag, metal, glass, metal and ash.

Clinker and coal are often representative of elevated concentrations of metals and PAH compounds. No other visual or olfactory evidence of contamination was noted within this stratum.

19 SPTs undertaken within the Made Ground at depths ranging from approximately 1.00m to 2.00m bgl gave results ranging from N = 4 to in excess of N = 50, but were generally in the range N = 4 to N = 12, which is representative of a loose to medium dense granular material. High SPT results are considered likely to be representative of cobbles or boulders within the stratum, rather than very dense granular soils.

4.1.2 Collyhurst Sandstone Formation

The Collyhurst Sandstone Formation was recorded beneath Made Ground at depths ranging from approximately 2.30m to 2.60m bgl. The stratum was encountered as very dense red-brown, slightly silty, fine to medium sand or brown, gravelly, cobbly sand to depths ranging from approximately 3.20m to 4.00m bgl. These deposits were underlain by very dense, slightly silty fine to medium sand to depths of approximately 13.50m to 15.00m bgl in boreholes BH01 and BH02.

15 SPTs undertaken within the Collyhurst Sandstone Formation at depths ranging from approximately 3.00m to 15.00m bgl gave results ranging from N = 32 to in excess of N = 50. This is indicative of a dense to very dense granular material.

4.2 Groundwater

Groundwater strikes were recorded in boreholes BH1 and BH2 during intrusive works at depths of approximately 4.00m bgl, rising to 3.50m bgl. Groundwater levels recorded within wells during subsequent groundwater monitoring visits are summarised in the table below:

Table 2– Groundwater Level Data

Monitoring Well ID	Well Screen Depth (m bgl)	Strata	Depth to Water (m bgl)			
			13/05/22	18/05/22	25/05/22	07/06/22
BH1	3.00 to 13.00	Collyhurst Sandstone Formation	2.93	2.95	2.83	2.95
BH2	3.00 to 14.50	Collyhurst Sandstone Formation	2.80	2.77	2.81	2.77
WS2	1.00 to 2.00	Made Ground	Dry	Dry	Dry	Dry
WS5	1.00 to 2.00	Made Ground	Dry	Dry	Dry	Dry
WS6	1.00 to 2.50	Made Ground	Dry	Dry	Dry	Dry
WS7	0.50 to 1.50	Made Ground	Dry	Dry	Dry	Dry

The results of monitoring appear to be representative of a relatively continuous groundwater table within the Collyhurst Sandstone Formation at levels of approximately 29.50m to 29.80m AOD. The water level within the adjacent River Irk is at approximately 29.70m bgl. On this basis, it is considered likely that groundwater is in hydraulic continuity with adjacent watercourses.

5.0 Hazardous Ground Gas Assessment

5.1 Introduction

Made Ground was encountered across the site to depths up to 2.60m bgl, generally comprising variable deposits of gravelly sand.

No visual or olfactory evidence of contamination was encountered during the investigation. Laboratory testing identified marginally elevated concentrations of PAHs and TPHs within one sample. Hydrocarbon impacted soils can generate concentrations of hazardous ground gas and volatile vapours and is therefore considered a potential source of ground gas.

The nearest BGS recorded landfill site is located approximately 86m northwest of the site, which may represent an off-site source of ground gas. Three historical landfill sites are also indicated to be present within 500m of the site,

5.2 Scope of Works

Ground gas monitoring wells were installed in six boreholes, with the response zones positioned within the Made Ground or underlying Collyhurst Sandstone Formation. A monitoring programme comprising four visits over a period of one month was carried out in accordance with the guidance within CIRIA Report C665 'Assessing risks posed by hazardous ground gases to buildings.

5.3 Monitoring Results

Four gas monitoring visits have been carried out between 13th May 2022 and 7th June 2022. Atmospheric pressure ranged from 1000mb to 1013mb during these visits. Falling pressure trends were recorded on two occasions. Copies of the results are presented in Appendix V and summarised in the table below.

Table 3 – Gas Monitoring Results

Hole ID	Max Methane (%v/v)	Max Carbon Dioxide (%v/v)	Flow Rate (l/hr)	Gas Screening Value (l/hr)	Characteristic Situation
BH1	0.0	9.2	0.1	0.092	CS2
BH2	0.0	0.9	0.1	0.0018	CS1
WS2	0.0	2.6	0.2	0.0052	CS1
WS5	0.0	3.0	0.1	0.003	CS1
WS6	0.0	3.0	0.1	0.003	CS1
WS7	0.0	2.5	0.1	0.0025	CS1

Installations were monitored for concentrations of methane, carbon dioxide and oxygen. In addition, the flow rate and barometric pressure were recorded.

Methane was not recorded at concentrations in excess of the instrument limit of detection (<0.1% by volume (v/v)).

Carbon dioxide was recorded at a maximum concentration of 9.2% v/v within monitoring well BH1 on 7th June 2022. However, the response zone within this well was flooded at the time of monitoring and this result is therefore not considered representative of ground gas conditions beneath the site. Carbon dioxide concentrations of up to 3.0% were recorded in other monitoring wells (in WS5 on 7th June 2022 and WS6 on 13th May 2022).

Ground gas flow rates of up to 0.20 litres per hour were recorded in monitoring well WS02 on 13th May 2022.

The lowest recorded oxygen concentration was 5.7% v/v within monitoring well BH1 on 7th June 2022.

5.4 Discussion

The CIRIA Report C665 outlines indicative guideline concentrations for carbon dioxide and methane in association with gas flow rates for which gas protection measures may be required in new residential or commercial developments. The methodology is based on the Modified Wilson and Card approach that characterises the gas regime into a series of Characteristic Situations (1 to 5), with corresponding indicative gas protection measures.

Using this methodology, the ground gas regime at this site corresponds to CIRIA Characteristic Situation (CS1). On this basis, no specific gas prevention measures are required within the development.

The installation of the gas protective measures will need to be independently verified by an experienced engineer in accordance with guidance provided in CIRIA Report C735 “Good Practice on the Testing and Verification of Protection Systems for Buildings Against Hazardous Ground Gases” to ensure discharge of planning conditions relating to contaminated land.

6.0 Tier 1 Contamination Analysis

The field investigation findings indicate that pathways are present by which contaminants of concern can impact identified receptors. Chemical analysis has been carried out on soils sampled from beneath the site. The concentrations of contaminants of concern within soil can be compared to assessment criteria (AC) to determine whether these represent an unacceptable risk to identified receptors. The derivation of AC to be used and the comparison of these criteria to the results of the chemical analyses are presented below.

6.1 Human Health Assessment Criteria

In order to assess risks to future site users, concentrations of contaminants of concern have been compared to Suitable 4 Use Levels (S4UL) generic AC published by Land Quality Management: Chartered Institute of Environmental Health (LQM:CIEH) in 2015.

The assessment has been based upon the use of the site for commercial purposes, based on the proposed use of the site as a storage facility.

As a conservative measure, concentrations of contaminants of concern have been compared to the S4UL (1.00% Soil Organic Matter) values.

A notable exclusion from the S4ULs is lead. In the absence of a S4UL for lead, the Category 4 Screening Level (C4SL) has been selected, published by DEFRA in 2014. It is noted that the C4SL are based on the acceptance of a low level of toxicological concern, rather than the more conservative standard adopted in the derivation of S4ULs, which are based on a tolerable or minimal level of risk.

The potential risk posed to controlled waters from contaminants of concern within soils beneath the site is not addressed by these screening criteria.

6.2 Comparison of Soil Analyses to Human Health Assessment Criteria

Chemical analysis was undertaken on ten samples of the Made Ground and three samples of the Collyhurst Sandstone Formation. A comparison of soil analyses to the relevant AC presented below.

6.2.1 Inorganic Determinands

Inorganic contaminants of concern were not recorded within soil samples analysed from beneath the site at concentrations in excess of adopted AC.

6.2.2 Organic Determinands

Dibenzo(ah)anthracene (5.29mg/kg) was recorded in a sample of Made ground analysed from borehole WS9 at a depth of approximately 0.50m bgl at concentrations in excess of adopted AC. The AC for dibenzo(ah)anthracene is 3.6mg/kg.

PAH contaminants were not recorded within any other of the soil samples analysed from beneath the site at concentrations in excess of adopted AC.

TPH contaminants of concern were not recorded within soil samples analysed from beneath the site at concentrations in excess of the adopted AC.

VOC compounds were generally not recorded at concentrations in excess of laboratory limits of detection. Toluene (2µg/kg) was recorded in one sample of Made Ground collected from borehole WS6 at a depth of approximately 0.50m bgl. The AC for toluene is 1920mg/kg.

6.2.3 Asbestos

Amosite and Chrysotile asbestos fibres were recorded in a sample of Made Ground collected from borehole WS09 at a depth of approximately 0.50m bgl. Quantification testing recorded a concentration of 0.013% asbestos by weight.

Asbestos containing materials (ACMs) were not identified in any of the other soil samples submitted for screening.

6.3 Groundwater

Two samples of the groundwater were recovered from monitoring wells BH1 and BH2, screened across the Collyhurst Sandstone Formation, on two separate occasions, and sent to a UKAS accredited laboratory to be tested for a suite of contaminants including dissolved metals, TPH fractions, speciated PAH and VOCs.

The site is underlain a Principal Aquifer, relating to the Collyhurst Sandstone Formation. The site is not located within a groundwater SPZ. However, a groundwater abstraction is indicated to be approximately 150m from the site, used for cooling purposes. The River Irk is present approximately 9m to the west of the site and the Moss Brook runs through the site in a culverted section. On this basis, contaminant concentrations recorded in groundwater sampled from beneath the site have been compared to the EQS threshold values for Fresh Water (annual average concentration). Where EQS values are not available, contaminant concentrations have been compared to the UK Drinking Water Standards (2000)

6.3.1 Inorganic Determinands

Boron was recorded at concentrations of 2,490µg/l and 2,820µg/l within groundwater samples collected from monitoring well BH1 during the first and second sampling visits, respectively. The EQS threshold value (annual average concentration) for boron is 2,000µg/l.

Copper was recorded at concentrations of 5µg/l and 3µg/l within groundwater samples collected from monitoring well BH1 during the first and second sampling visits, respectively. Copper was recorded at concentrations of 8µg/l and 9µg/l within groundwater samples collected from monitoring well BH2 during the first and second sampling visits, respectively. The EQS threshold value (annual average concentration) for copper is 1µg/l.

Nickel was recorded at concentrations of 22µg/l and 21µg/l within groundwater samples collected from monitoring well BH1 during the first and second sampling visits, respectively. Nickel was recorded at concentrations of 16µg/l and 13µg/l within groundwater samples collected from monitoring well BH2 during the first and second sampling visits, respectively. The EQS threshold value (annual average concentration) for Nickel is 4µg/l.

Other inorganic contaminants of concern were not recorded within groundwater samples analysed from beneath the site at concentrations in excess of adopted AC.

6.3.2 Organic Determinands

Benzo(a)pyrene (0.75µg/l), benzo(b)fluoranthene (0.98µg/l), benzo(ghi)perylene (0.42µg/l), benzo(k)fluoranthene (0.31µg/l) and fluoranthene (2µg/l) were recorded within a groundwater sample analysed from monitoring well BH2, collected during the first groundwater monitoring visit. No elevated concentrations of PAH compounds were recorded within groundwater analysed from this monitoring well, collected during the second visit.

1,1-Dichloroethene and 1,1-Dichloroethane were recorded at concentrations of 6µg/l and 11µg/l, respectively, within groundwater analysed from monitoring well BH1, collected on both visits.

TPH compounds were not recorded in groundwater sampled from beneath the site at concentrations in excess of the laboratory limit of detection.

6.4 Surface Water

Samples of surface water were collected from the River Irk and Moss Brook in positions upstream and downstream of the site on two occasions and sent to a UKAS accredited laboratory to be tested for a suite of contaminants including dissolved metals, TPH fractions, speciated PAH and VOCs.

Contaminant concentrations recorded in water sampled from the River Irk and Moss Brook have been compared to the EQS threshold values for Fresh Water (annual average concentration).

6.4.1 Contaminants of Concern

Contaminants of concern recorded in surface water sampled from the River Irk and Moss Brook at concentration in excess of adopted AC are summarised in the table below:

Table 4 – Contaminants Recorded in Surface Water

Contaminant	Upstream of Site				Downstream of Site			
	River Irk		Moss Brook		River Irk		Moss Brook	
	Visit 1	Visit 2	Visit 1	Visit 2	Visit 1	Visit 2	Visit 1	Visit 2
Copper	4µg/l	12µg/l	4µg/l	13µg/l	13µg/l	15µg/l	5µg/l	12µg/l
Aliphatic TPH (C21 to C35)	<5µg/l	<5µg/l	<5µg/l	<5µg/l	<5µg/l	<5µg/l	11µg/l	<5µg/l
Aromatic TPH (C16 to C21)	9µg/l	8µg/l	<5µg/l	10µg/l	7µg/l	10µg/l	14µg/l	10µg/l

Not above AC

6.4.2 Contaminant Summary

Concentrations of copper in downstream samples of the River Irk and Moss Brook were not elevated above those in samples collected from upstream. It is considered that concentrations of copper recorded in samples of groundwater and surface waters are likely representative of natural background concentrations.

Although considered to be very low, concentrations of TPH in water sampled from the River Irk and Moss Brook were slightly higher in downstream samples, than in those collected upstream of the site. Further monitoring of surface water quality would be required to determine whether TPH concentrations were consistently higher in samples collected downstream of the site, which may indicate that pollutants from beneath the site were entering the watercourses.

7.0 Contamination Assessment

7.1 Introduction

Based on the information obtained during the ground investigation and laboratory testing, the 'Preliminary Conceptual Site Model' has been amended accordingly. The Conceptual Site Model is used as a basis to identify contamination sources, pathways and receptors and is subject to constant refinement as more information becomes available.

7.2 On Site Human Health Receptors

PAH compounds were recorded in one sample of Made Ground collected from borehole WS09 at concentrations in excess of adopted AC protective of commercial site workers. Chrysotile and amosite asbestos fibres were also recorded within this sample. Following redevelopment, the pathways of direct contact, ingestion and inhalation of contaminated dust will not be active in areas covered by building footprint or hard surfacing.

Significant concentrations of volatile contaminants of concern were not recorded within soil sampled from beneath the site. Therefore, future site users are not considered to be at significant risk from contaminants in soil via the vapour inhalation pathway in indoor areas.

Based on the available information and recommended mitigation measures being implemented, concentrations of contaminants of concern detected within soil sampled from beneath the site are not considered to represent a potentially significant risk to future site users.

7.3 Off-site Human Health Receptors

Following redevelopment, the site will be covered by building footprint or hardstanding. On this basis, there is limited potential for the air-borne migration of soil or dust to impact neighbouring receptors.

Given the commercial nature of neighbouring properties, off-site human health receptors are not considered to be at significant risk from potential contaminants of concern migrating off-site via groundwater.

Based on the available information, concentrations of contaminants of concern detected within soil sampled from beneath the site are not considered to represent a potentially significant risk to off-site human health receptors.

7.4 Construction / Maintenance Workers

S4UL screening criteria cannot be used to assess the acute (short term exposure) risk that personnel in close contact with exposed soils may experience during construction/site maintenance duties.

Potential risks to construction/maintenance workers can be controlled by the use of appropriate personal protection equipment (e.g. disposable coveralls, gloves and particulate/vapour masks) and by adopting high levels of personal hygiene.

Given the presence of chrysotile asbestos fibres recorded in a sample of Made Ground collected from borehole WS09, it is recommended that an asbestos management plan be put in place during the proposed development. If significant quantities of asbestos are encountered during the works, a specialist should be contacted regarding its treatment and removal.

7.5 Groundwater

Marginally elevated concentrations of boron, copper and nickel in excess of EQS screening criteria were recorded in groundwater sampled from monitoring wells BH1 and BH2, screened within the Collyhurst Sandstone Formation. Concentrations of PAH compounds in excess of adopted AC were also recorded in groundwater sampled from monitoring well BH2 collected as part of the first sampling visit. However, elevated

concentrations of these compounds were not recorded in groundwater sampled from monitoring well BH2, collected as part of a second visit.

Although the site is underlain by a Principal Aquifer and an abstraction is indicated to be present in close proximity to the site, this is used for industrial cooling processes. No licensed potable groundwater abstractions are indicated to be present within 1km of the site. Furthermore, the site is not located within a groundwater SPZ. Given the low sensitivity of the Collyhurst Sandstone Formation Principal Aquifer and the generally low concentrations of contaminants recorded in groundwater, the site is not considered to represent a significant risk to groundwater resource receptors.

7.6 Surface Water

Concentrations of copper in downstream samples of the River Irk and Moss Brook were not elevated above those in samples collected from upstream. It is considered that concentrations of copper recorded in samples of groundwater and surface waters are likely representative of natural background concentrations.

Although considered to be very low, concentrations of TPH in water sampled from the River Irk and Moss Brook were slightly higher in downstream samples, than in those collected upstream of the site. Further monitoring of surface water quality would be required to determine whether TPH concentrations were consistently higher in samples collected downstream of the site, which may indicate that pollutants from beneath the site were entering the watercourses. It would also be prudent to continue monitoring during development to ensure the construction activities do not have a detrimental effect on surface water quality.

7.7 Polymeric Utility Pipes

Concentrations of TPH compounds were recorded in samples analysed from the Made Ground at concentrations that may pose a risk to potable water supply pipes. Standard polymeric utility pipes are therefore unlikely to be suitable for the proposed development. Barrier pipe may be required, or utility pipes laid in dedicated trenches and backfilled with clean, inert material.

Requirements for buried utility pipes should be discussed with service providers before the development stage.

7.8 Revised Conceptual Site Model

The potential source-pathway-receptor linkages and associated risks upon completion of the proposed development at the site, as identified following completion of the assessment, are summarised in the table below.

Table 5 – Revised Conceptual Site Model

Potential Source	Via	Potential Pathways	Linkage Potentially Active? (Yes/No)	Receptors
On site: PAH and asbestos fibres recorded in a sample of Made Ground in borehole WS09. PAH recorded in groundwater sampled from monitoring well BH2.	Soil	Direct contact/ingestion	No	Site users
		Inhalation of volatiles	No	
		Airborne migration of soil or dust	No	Off-site users
		Leaching of mobile contaminants	No	Collyhurst Sandstone Formation Principal Aquifer
	Groundwater	Direct contact/ingestion	No	Site users
			No	Off-site users
		Inhalation of volatiles	No	Site users
			No	Off-site users
		Vertical and lateral migration in permeable strata	No	Principal Aquifers
			Yes	River Irk and Moss Brook
Off site: Runoff from neighbouring HMG paints facilities and road network	Groundwater	Direct contact/ingestion	No	Site users
		Inhalation of volatiles	No	Site users
	Service conduits	Direct contact/ingestion	No	Site users
		Inhalation of volatiles	No	Site users
On and off-site: Potential hazardous ground gas and vapours from Made Ground.	Ground Gas	Inhalation of ground gas	No	Site users
			No	Off-site users
		Explosive risks	No	Site users
			No	Off-site users

The risk assessment is based upon the available information relating to the site and all recommended mitigation measures being implemented. Should ground conditions inconsistent with those outlined in this report be encountered CCL should be contacted to enable further assessment. The findings of the CSM should be confirmed upon finalisation of the proposed redevelopment plans.

8.0 Geotechnical Assessment

8.1 Introduction

It is proposed to develop the site with a new storage facility, with a ground floor area of approximately 1,424m².

No preliminary structural loads have been received for the proposed development. Therefore, the preliminary recommendations below will need to be reviewed at the detailed design stage once these are known.

8.2 Preliminary Geotechnical Risk Register

The table below summarises the potential geotechnical hazards associated with the development. The table provides an assessment of whether the site is likely to be affected by the hazard and the possible consequences and engineering considerations.

Table 6 – Geotechnical Risk Register

Hazard Description	Is hazard likely to be present / affect the site?	Comments/possible engineering requirements where hazard present
Sudden lateral/vertical changes in ground conditions	M/H	A significant thickness of Made Ground was recorded beneath the site, overlying the Collyhurst Sandstone Formation. The main variation in ground conditions is likely to be associated with the thickness and composition of the Made Ground.
Highly compressible/low bearing capacity soils, (including peat and soft clay)	M/H	Made Ground is not considered to represent a suitable bearing stratum to support traditional strip or pad foundations. Piled foundations are likely to be required, terminating in the underlying Collyhurst Sandstone Formation.
Ground dissolution features/natural cavities	L	Ground conditions beneath the site are not consistent with these features.
Shrinking and swelling clays	L	Soils beneath the site were predominantly granular in nature and unlikely to be susceptible to volume change hazards.
Slope stability/Retaining wall issues	L	No slopes or retaining walls are understood to be proposed as part of the development. However, any temporary or permanent slopes or retaining walls created as part of the development should be subject to appropriate geotechnical design based on site-specific site investigation information.
High groundwater table (including waterlogged ground)	L/M	Groundwater was recorded from depths of approximately 2.70m to 2.90m bgl within wells during monitoring visits to site. Excavations beneath this depth are therefore likely to require groundwater control and exclusion measures.
Filled and Made Ground (including embankments)	M/H	Made Ground was recorded beneath the site, up to 2.30m in thickness.
Obstructions (including foundations, services, basements, tunnels and adjacent sub-structures)	M/H	The Moss Brook runs beneath the site in a culverted section. Foundations for the proposed development will need to be designed and placed in fashion that avoids transferring unacceptable loads onto the culvert. Given the development history of the site, unrecorded obstructions may also be present. Heavy plant may be required to remove these.
Underground mining	L	The Coal Authority indicates that the site is not located within an area where coal mining presents a significant risk. No further assessment of the potential risk posed by coal mining is considered to be required.
Concrete classification	L	Testing indicates that that a Design Sulphate Class of DS1 and an Aggressive Chemical Environment for Concrete (ACEC) Classification of AC1 would be suitable for all buried concrete structures.

Hazard Description	Is hazard likely to be present / affect the site?	Comments/possible engineering requirements where hazard present
Seismic Activity	L	The Eurocode 8 seismic hazard zoning maps for the UK (Musson and Sargeant, 2007) indicate that horizontal Peak Ground Acceleration (PGA) values with 10% probability of being exceeded in 50 years (475 year return period) are between 0.00g and 0.02g, which is considered very low.
NOTES: H – High Risk M – Medium Risk L – Low risk		

8.3 Foundation Solutions

8.3.1 Piled Foundations

Given the thickness of Made Ground beneath the site, it is considered that piled foundations would be required to support the proposed development. Driven piles, terminating in the deeper layers of the Collyhurst Sandstone Formation are likely to be most suitable on the subject site from a geotechnical viewpoint. However, the use of displacement piling may be restricted by the Environment Agency (EA), given the presence of the Principal Aquifer beneath the site, and bored piling methods may be required instead.

Preliminary anticipated bored pile bearing capacities are detailed in the table, below:

Table 7 – Anticipated Preliminary Pile Capacities

Pile Length (m bgl)	Pile Diameter		
	450mm	600mm	750mm
10.00	470kN	765kN	1130kN
11.00	545kN	875kN	1285kN
12.00	625kN	995kN	1455kN
13.00	705kN	1120kN	1625kN
14.00	795kN	1255kN	1810kN
15.00	890kN	1395kN	2000kN

A piling contractor should be consulted with regard to detailed pile design, since the type of pile and method of installation adopted will affect capacity.

Partial safety factors have been applied to the calculated pile capacities above in accordance with Design Approach 1: Combination 2, as detailed within Tables A.6, A.7 and A.8 of Annex A in BS EN 1997-1. This was found to be the most conservative design approach.

It should be noted that no design loads have been received at this stage. It is recommended that when the final structural loads have known further detailed assessment of pile capacity will need to be undertaken in accordance with the recommendations provided in Eurocode 7.

Loads are based on single piles only and do not take into account the action of groups of piles. This should be considered at the detailed design stage.

The pile capacity estimates presented above are preliminary and based on a conservative soil profile derived from exploratory holes undertaken on site. The adopted pile profile is summarised as follows:

Table 8 – Adopted Soil Profile

Stratum	Depth (m bgl)	Bulk Density (kN/m ³)	Soil/Pile Friction Angle (°)	Nq
Made Ground	GL to 3.00	18	Not taken into account	
Collyhurst Sandstone Formation	3.00 to 15.00	20	25	20

An appropriate piling platform should be designed and constructed in accordance with BRE Digest 470 (Working platforms for Tracked Plant).

An Environmental Piling Risk Assessment should be undertaken to assess the potential risk posed to groundwater resource receptors by piling and to determine the most appropriate piling method to mitigate this risk.

8.4 Floor Slabs

Made Ground is anticipated to be present at floor slab formation level beneath the proposed development at an assumed depth of approximately 0.60m bgl. Suspended floor slabs would be required to prevent excessive total and differential settlement, whereby settlement beneath the slab would be controlled by the foundations of the building. Additional loads from suspended floor slabs should be taken into account when designing foundations for the proposed development.

8.5 Pavements

Four plate load tests were undertaken within an area to the east of the site where the proposed entrance road re-alignment is to take place.

Tests CBR01 to CBR04 were taken at depths of between 0.2m band 0.3m bgl to derive CBR (California Bearing Ratio) values to assist with highways design and are presented in Table 13 below

Table 9 – Plate Bearing Test Results

Location	Test depth (m)	Stratum	Test Result (%)
CBR01	0.2	Made Ground	17
CBR02	0.2	Made Ground	24
CBR03	0.3	Made Ground	7.6
CBR04	0.2	Made Ground	17

Based on the results above a conservative CBR value of 7% is recommended. The formation level should be proof rolled prior to placement of subbase and any soft spots excavated and replaced with compacted granular fill.

Copies of the plate load test results are presented in Appendix VI.

8.6 Temporary Works and Excavations

The Moss Brook runs beneath the site in a culverted section. Foundations for the proposed development will need to be designed and placed in fashion that avoids transferring unacceptable loads onto the culvert. Given the development history of the site, unrecorded obstructions may also be present. Heavy plant may be required to remove these.

Groundwater was recorded from depths of approximately 2.77m bgl within wells during monitoring visits to site. Excavations beneath this depth are therefore likely to require groundwater control and exclusion measures.

If groundwater is encountered during excavation, degradation of the formation may occur. The formation should therefore be adequately protected from seepages and protected from adverse weather conditions. If the formation layer becomes wet resulting in loosening of the surface materials, then excavation may have to be taken deeper in order to find a suitable bearing layer. Instability of excavations in granular material should be expected, especially during periods of adverse weather. Suitable shoring measures or battering back of slopes may be required for any excavations greater than 1.20m bgl. All temporary excavations should be undertaken in accordance with CIRIA Report 97 'Trenching Practice'.

8.7 Chemical Attack on Buried Concrete

Samples of the Made Ground, and Collyhurst Sandstone Formation were tested for pH and for sulphate content. The results are presented below:

Table 1 – Results of pH and sulphate testing

Stratum	No. Samples	Range of pH	Characteristic pH	Range of Sulphate (mg/kg)	Characteristic Sulphate (mg/kg)	Design Sulphate Class	ACEC Class
Made Ground	4	9.2 to 12.2	9.2	10 to 130	130	DS-1	AC-1
Collyhurst Sandstone Formation	2	8.1 to 8.5	8.1	20 to 30	20	DS-1	AC-1

The data was used to assess appropriate concrete classification for buried concrete in accordance with BRE Special Digest 1, based on the following assumptions:

- Brownfield ground conditions.
- Mobile groundwater conditions.
- For a dataset of less than five samples, the characteristic value for soluble sulphate has been taken as the highest result, while the characteristic value for pH is taken as the lowest pH result.

Based on the above, it is considered that a Design Sulphate Class of DS1 and an Aggressive Chemical Environment for Concrete (ACEC) Classification of AC1 would be suitable for all buried concrete structures.

9.0 Waste Characterisation

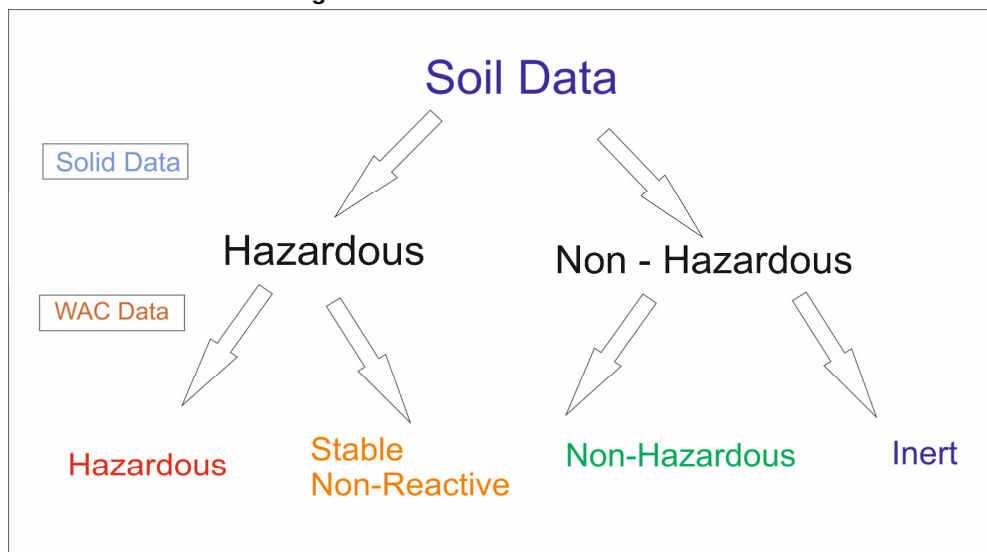
9.1 Assessment Criteria

It is likely that soil arisings generated through piling or any other excavation associated with the development will require removal from site, since there is limited potential for on-site re-use of this material. Should no suitable off site re-use options be available, disposal to landfill may need to be considered. However, if contaminated material is to be disposed of, use of soil treatment facilities should also be considered.

If disposal to landfill is required, the excavated material would be considered as waste and should be classified in line with the Hazardous Waste Directive - HWD, Council Directive 91/689/EC. This legislation divides waste into two categories, hazardous and non-hazardous. These two categories can then be subdivided into a number of classes relating to the type of landfill/cell to which the material can be sent; these are illustrated below.

In order to provide an indication of the likely waste characterisation of soils excavated from the site, should disposal be required, a waste characterisation exercise has been carried out. This is summarised in Sections 9.2 to 9.5 below. Any material sent to landfill should be accompanied by the appropriate duty of care documentation and the chemical data should be forwarded to the accepting landfill for approval prior to removal of the soil from site.

Figure 1 – Waste Characterisation Categories



9.2 Soil Sampling and Testing

9.2.1 Solid Suite of Analysis

Chemical analysis was undertaken on ten samples of Made Ground and three samples of the Collyhurst Sandstone Formation. Soil samples were analysed for the following solid suite of analysis:

pH, arsenic, asbestos, boron, cadmium, chromium, copper, lead, mercury, nickel, selenium, zinc, sulphide, sulphate, cyanide and PAH.

9.2.2 WAC Testing

Two samples of Made Ground collected from boreholes BH1 and BH2 at depths of approximately 0.60m bgl and one sample of the Collyhurst Sandstone Formation from borehole BH1 at a depth of 2.90m bgl, were also submitted for the solid WAC suite of analysis.

The solid WAC suite of analysis included testing for the following determinands:

Total organic carbon (TOC), loss on ignition (LOI), BTEX, sum of PCBs, mineral oil and total PAH, acid neutralisation capacity and pH.

WAC single stage leachate analysis was also carried out on the above samples. The analysis included testing for the following determinands:

Arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, antimony, selenium, zinc, chloride, fluoride, sulphate, total dissolved solids (TDS), phenol index and dissolved organic carbon.

All soil analysis and WAC results are provided in Appendix III.

9.3 Solid Soil Data

Results of the solid suite were analysed using HazWasteOnline Software which allows users to classify waste as defined in the EWC (European Waste Catalogue 2002) based on the regulatory framework for the Classification Labelling and Packaging of Substances and mixtures Regulation, (EC) No 172/2008 and the latest Environment Agency guidance (Technical Guidance WM3).

The results of the analysis show that samples of Made Ground analysed from borehole BH2 and borehole WS9 would require disposal as Hazardous Waste (if they needed to be removed from site). Made Ground sampled from borehole BH2 had a high pH value and the sample from borehole WS9 contained elevated concentrations of TPH.

All other samples of Made Ground and the samples of the Collyhurst Sandstone Formation would be suitable for disposal as Non-Hazardous Waste.

9.4 WAC Data

9.4.1 Solid Data

Two samples of Made Ground collected from boreholes BH1 and BH2 at depths of approximately 0.60m bgl and one sample of the Collyhurst Sandstone Formation from borehole BH1 at a depth of 2.90m bgl, were also submitted for the solid WAC suite of analysis.

None of the samples exceeded contaminant thresholds for Inert Waste.

9.4.2 Leachate Data

The samples of Made Ground and natural strata were also subject to the WAC leachate suite of analysis.

The sample of Made Ground from borehole BH1 exceeded the Inert Waste threshold for lead.

The sample of Made Ground from borehole BH2 did not exceed any of the contaminant thresholds for Stable Non-Reactive Hazardous Waste.

The sample of the Collyhurst Sandstone Formation from borehole BH1 did not exceed any of the contaminant thresholds for Inert Waste.

9.5 Summary of Results

The results of the waste characterisation exercise are provided in Appendix VII and summarised in the table below.

Table 11 – Summary of Waste Characterisation Exercise

Position	Depth (m bgl)	Strata	Solid Suite of Analysis	Exceedance of Corresponding Inert, SNRHW and Hazardous waste WAC Limit Value?	WAC Analysis Results
BH1	0.60	Made Ground	Non-Hazardous	Lead	Non-Hazardous
BH1	1.90	Made Ground	Non-Hazardous	N/A	N/A
BH1	2.90	Collyhurst Sandstone Formation	Non-Hazardous	None	Inert
BH2	0.60	Made Ground	Hazardous	None	SNRHW
BH2	1.80	Made Ground	Non-Hazardous	N/A	N/A
BH2	2.70	Collyhurst Sandstone Formation	Non-Hazardous	N/A	N/A
WS2	0.50	Made Ground	Non-Hazardous	N/A	N/A
WS4	0.50	Made Ground	Non-Hazardous	N/A	N/A
WS6	0.50	Made Ground	Non-Hazardous	N/A	N/A
WS6	2.60	Collyhurst Sandstone Formation	Non-Hazardous	N/A	N/A
WS7	0.60	Made Ground	Non-Hazardous	N/A	N/A
WS9	0.50	Made Ground	Hazardous	N/A	N/A

N/A – Additional WAC analysis not carried out on sample

Based on available information, it is considered likely that the majority of the Made Ground beneath the site will be classified as Non-Hazardous waste and be suitable for disposal to a Non-Hazardous Waste Landfill. Made Ground in the vicinity of borehole BH2 and WS9 would need to be segregated for separate disposal to a Stable Non-Reactive Hazardous Waste Landfill.

Natural strata beneath the site would be suitable for disposal to an Inert Waste Landfill.

Any material sent to landfill should be accompanied by the appropriate duty of care documentation and the chemical data should be forwarded to the accepting landfill for approval prior to removal of the soil from site.

It should be noted that ground conditions are often variable, particularly Made Ground. To manage disposal costs, we recommend that Made Ground soils generated during construction works be stockpiled separately, sorted by location and composition and subjected to further testing to confirm final waste classification with the receiving landfill. As such, the advice provided in this report should be considered preliminary at this stage and is subject to change depending on the actual waste materials generated during the construction works.

9.6 Waste Management

Arisings generated from excavations for foundations and service trenches etc. may be classified as waste and it is the responsibility of the holder of such material to form a view as to whether or not it constitutes waste.

Guidance on how this can be achieved is set out in the Development Industry Code of Practice (CoP) (CL:AIRE, March 2011).

The handling, re-use or disposal of waste materials is regulated by the Environment Agency, who take into account the CoP in determining whether materials are classified as waste. If materials are handled in accordance with the CoP it is considered unlikely that they will be considered waste at the point when they are used during development. This might be because the materials were never formally discarded or because they have been processed as part of a 'recovery' operation and therefore ceased to be waste.

Should site won material be intended for re-use on site a Materials Management Plan will be required from a suitably qualified environmental consultant in order to comply with the CoP.

10.0 Conclusions and Recommendations

Clancy Consulting Limited was instructed by HMG Paints to carry out a Phase 2 Site Investigation on a largely undeveloped area of the larger HMG Paints facility, Collyhurst Road, Manchester M40 7RU. It is proposed to develop the site with a new storage facility, with a ground floor area of approximately 1,424m².

The site investigation comprised of two cable percussion boreholes (BH1 and BH2) to depths of approximately 7.00m bgl, with rotary core follow on to depths of approximately 13.50m and 15.00m bgl, respectively. 12 window sample boreholes (WS1 to WS12) were undertaken to depths of up to 3.40m bgl. Groundwater and ground gas monitoring wells were installed in boreholes BH01, BH02, WS02, WS05, WS06 and WS07. One trial pit (TP1) was excavated to a depth of approximately 3.60m bgl and four plate load tests undertaken at shallow depth in order to derive CBR values.

Made Ground was recorded beneath topsoil, or concrete hard surfacing (up to 0.40m in thickness) to depths of up to 2.60m bgl. This was underlain by weathered deposits of the Collyhurst Sandstone Formation.

PAH compounds were recorded in one sample of Made Ground collected from borehole WS09 at concentrations in excess of adopted AC protective of commercial site workers. Chrysotile and amosite asbestos fibres were also recorded within this sample. Following redevelopment, the pathways of direct contact, ingestion and inhalation of contaminated dust will not be active in areas covered by building footprint or hard surfacing.

Marginally elevated concentrations of boron, copper and nickel in excess of EQS screening criteria were recorded in groundwater sampled from monitoring wells BH1 and BH2, screened within the Collyhurst Sandstone Formation. Concentrations of PAH compounds in excess of adopted AC were also recorded in groundwater sampled from monitoring well BH2 collected as part of the first sampling visit. However, elevated concentrations of these compounds were not recorded in groundwater sampled from monitoring well BH2, collected as part of a second visit.

Although the site is underlain by a Principal Aquifer and an abstraction is indicated to be present in close proximity to the site, this is used for industrial cooling processes. No licensed potable groundwater abstractions are indicated to be present within 1km of the site. Furthermore, the site is not located within a groundwater SPZ. Given the low sensitivity of the Collyhurst Sandstone Formation Principal Aquifer and the generally low concentrations of contaminants recorded in groundwater, the site is not considered to represent a significant risk to groundwater resource receptors.

Concentrations of copper in downstream samples of the River Irk and Moss Brook were not elevated above those in samples collected from upstream. It is considered that concentrations of copper recorded in samples of groundwater and surface waters are likely representative of natural background concentrations.

Although considered to be very low, concentrations of TPH in water sampled from the River Irk and Moss Brook were slightly higher in downstream samples, than in those collected upstream of the site. Further monitoring of surface water quality would be required to determine whether TPH concentrations were consistently higher in samples collected downstream of the site, which may indicate that pollutants from beneath the site were entering the watercourses. It would also be prudent to continue monitoring during development to ensure the construction activities do not have a detrimental effect on surface water quality.

Based on monitoring undertaken at the site to date, the ground gas regime corresponds to CIRIA CS1. On this basis, no gas prevention measures are considered to be required within new structures.

Given the thickness of Made Ground beneath the site, it is considered that piled foundations would be required to support the proposed development. Driven piles, terminating in the deeper layers of the Collyhurst Sandstone Formation are likely to be most suitable on the subject site from a geotechnical viewpoint. However, the use of displacement piling may be restricted by the EA, given the presence of the Principal Aquifer beneath the site, and bored piling methods may be required instead. An Environmental Piling Risk Assessment should be undertaken to assess the potential risk posed to groundwater resource receptors by piling and to determine the most appropriate piling method to mitigate this risk.

Groundwater was recorded from depths of approximately 1.78m bgl within wells during monitoring visits to site. Excavations beneath this depth are therefore likely to require groundwater control and exclusion measures.

Testing indicates that that a Design Sulphate Class of DS1 and an ACEC Classification of AC1 would be required for buried concrete structures in contact with the Made Ground and natural soils.

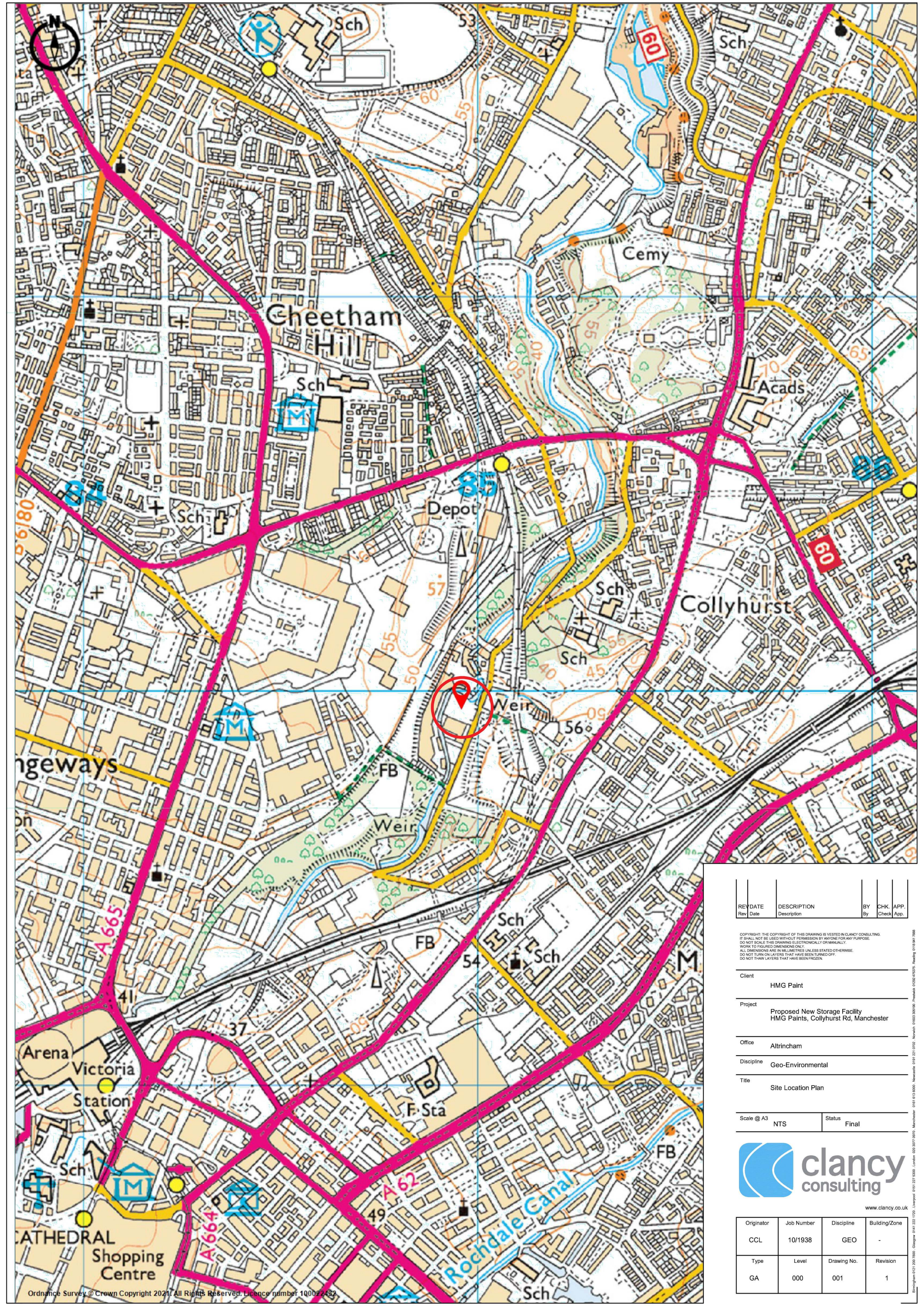
Based on available information, it is considered likely that the majority of the Made Ground beneath the site will be classified as Non-Hazardous waste and be suitable for disposal to a Non-Hazardous Waste Landfill. Made Ground in the vicinity of borehole BH2 and WS9 would need to be segregated for separate disposal to a Stable Non-Reactive Hazardous Waste Landfill. Natural strata beneath the site would be suitable for disposal to an Inert Waste Landfill.

Any material sent to landfill should be accompanied by the appropriate duty of care documentation and the chemical data should be forwarded to the accepting landfill for approval prior to removal of the soil from site.

The following should be considered for the proposed development:

- A Flood Risk Assessment should be undertaken, given the positions of the River Irk and Moss Brook and the location of the site in Flood Zone 3.
- Analysis of surface water samples collected from upstream and downstream positions in the River Irk and Moss Brook during development to ensure construction works do not impact surface water quality.
- An Environmental Piling Risk Assessment should be undertaken to assess the risk posed by piling to groundwater resource receptors.

APPENDIX I
DRAWINGS



REV	DATE	DESCRIPTION	BY	CHK.	APP.
Rev	Date	Description	By	Check	App.

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Client
HMG Paint

Project
Proposed New Storage Facility
HMG Paints, Collyhurst Rd, Manchester

Office
Altrincham

Discipline
Geo-Environmental

Title
Site Location Plan

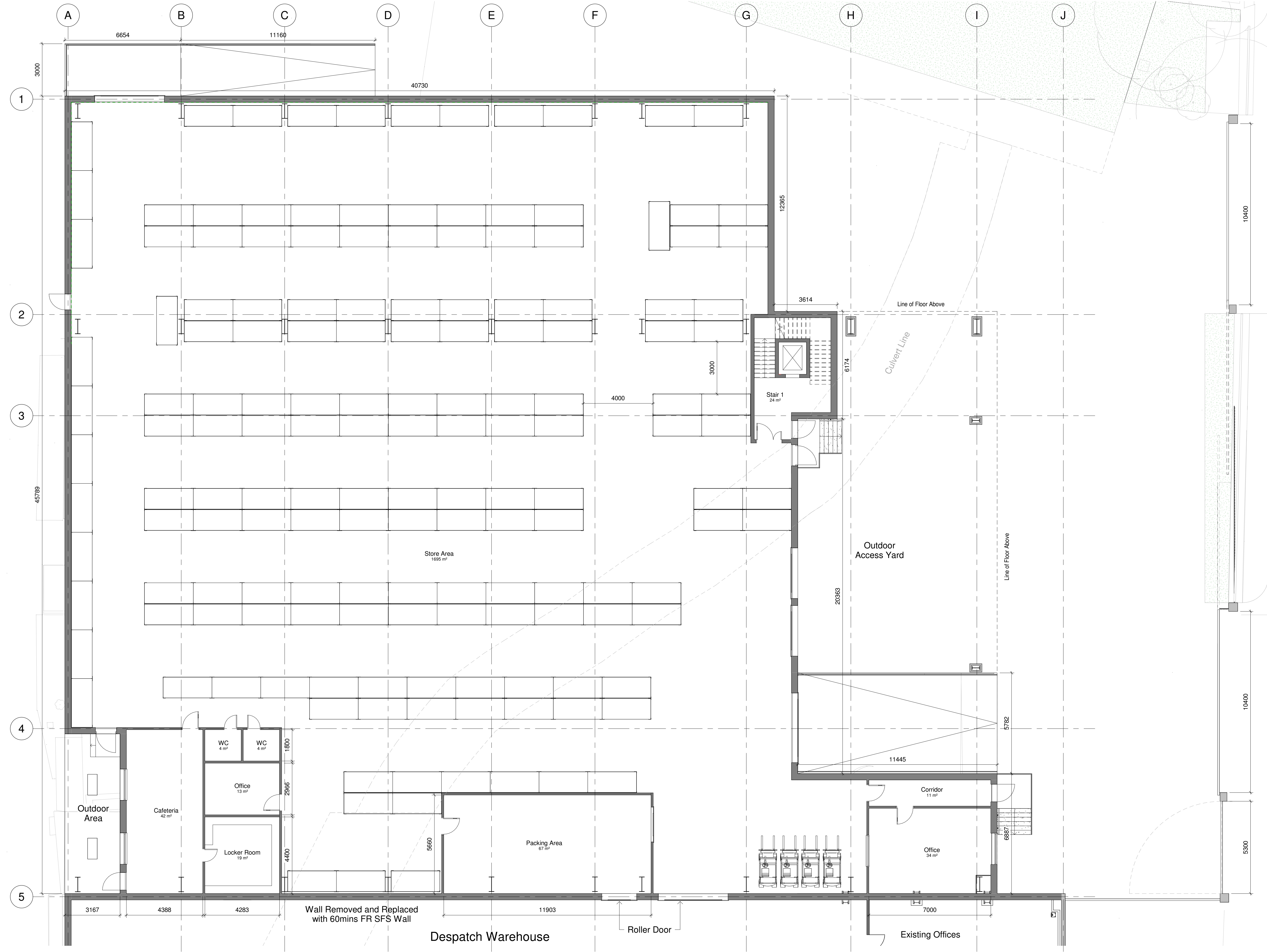
Scale @ A3
NTS

Status
Final



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Originator	Job Number	Discipline	Building/Zone
CCL	10/1938	GEO	-
Type	Level	Drawing No.	Revision
GA	000	001	1



Notes

The Contractor is to check all dimensions and conditions on site before commencing. Do not scale from this drawing.

This drawing remains the copyright of FAIRHURSTS DESIGN GROUP.

Scale Bars TO BE USED ONLY AS GUIDANCE

1:100	mm	0	1000	2000	3000	4000	5000
1:200	mm	0	500	1000	1500	2000	2500
1:500	M	0	5	10	15	20	25
1:1250	M	0	10	20	30	40	50

KEYPLAN

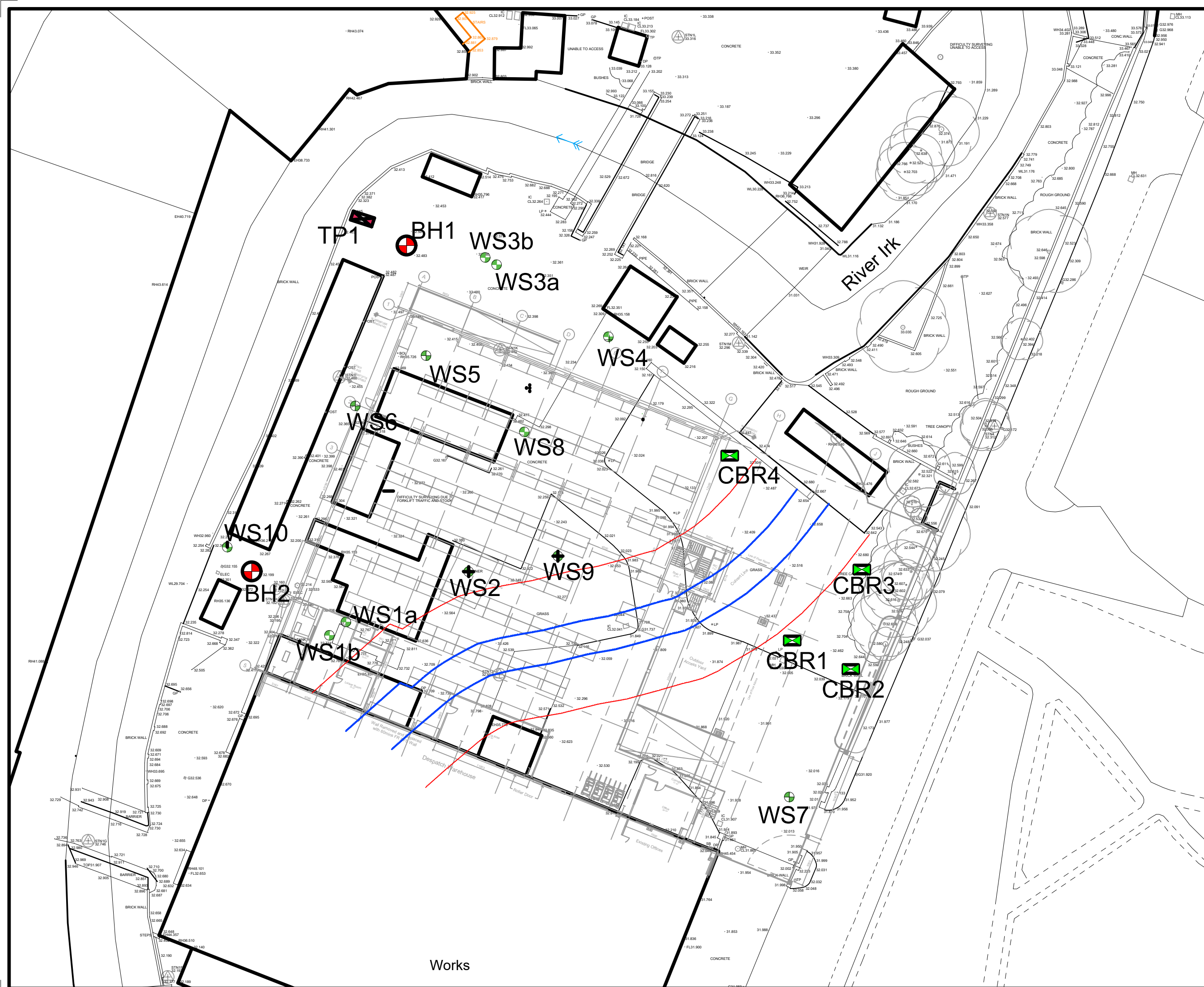
Note:

- Number of Racks - 159
- GF Area : 1918 m²
Excluding External Walls and Existing Building.
- GEA Area : 2292.7 m²

GF Room Area		
Name	Area	Level
Packing Area	67 m ²	Ground Floor
Office	13 m ²	Ground Floor
Locker Room	19 m ²	Ground Floor
WC	4 m ²	Ground Floor
WC	4 m ²	Ground Floor
Cafeteria	42 m ²	Ground Floor
Store Area	1695 m ²	Ground Floor
Office	34 m ²	Ground Floor
Corridor	11 m ²	Ground Floor
Stair 1	24 m ²	Ground Floor

Rev	Description	By	Date
Project Status		Drawing Status	
Stage 4			
This information, whether drawn or as a data file, is copyright and issued strictly for use on the project for which it is provided			
Client / Project			
HMG Paints			
Project Crystal			
Drawing			
GA Ground Floor Plan			
Date	11/05/2021	Scale	1 : 100
Drawn By	MCA	AS	Checked
Drawn By	AS	Checked	IRC
Manchester: 55 King Street Manchester M2 4LQ +44 (0)161 851 7300 Southampton: Minor Park Mimms Road Southampton SO43 7FY +44 (0)23 8081 7900 Cambridge: CB1 Business Centre 20 Station Road Cambridge CB1 2JD +44 (0)1223 863 868 www.fairhursts.com			
FDG Ref		7703-SBC-11101	

11-101 - GA - Ground Floor Plan
1 : 100



KEY

CBR Location

Window Sample Location

Cable / Rotary Borehole location

Trial Pit Location

01	28/01/22	Exploratory Hole Location Plan	SP	XXX
Rev	Date	Description	By	Check App.

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Client	HMG Paints Ltd
Project	Proposed New Building
Office	Altrincham
Discipline	Geo-Environmental
Title	Proposed Exploratory Hole Location

Scale @ A3	NTS	Status	Draft
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Originator	Job Number	Discipline	Building/Zone
SP	10-1938	Geo	-
Type	Level	Drawing No.	Revision
GA	00	002	1

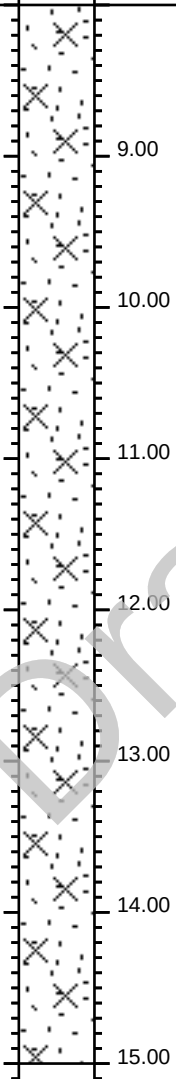
Birmingham 0121 230 7800 Glasgow 0141 222 7200 Liverpool 0151 227 5300 London 020 377 8970 Manchester 0161 613 8000 Newcastle 0191 221 0752 Norwich 01603 953190 Preston 01752 473375 Reading 0118 941 7989

APPENDIX II
EXPLORATORY HOLE LOGS

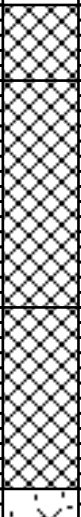
			Project Title: HMG Paints Manchester				BH1																										
			Project Number: 10/1938		Client: HMG Paints Ltd				Sheet 1 Of 2																								
			GL (mAOD):		N Coord: 0		E Coord: 0																										
Date: 25/04/2022-26/04/2022			Method:		Driller: DMW Drilling Ltd		Logged By: SP																										
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe																									
0.40	ES	N=11			0.15	MADE GROUND: Concrete with no rebar.																											
0.60	ES				0.30	MADE GROUND: Tarmac.																											
1.20 - 1.65	SPT				1.00	MADE GROUND: Brown sandy gravel. Gravel is angular to subrounded, fine to coarse of sandstone, brick and concrete.																											
1.90	ES SPT	N=5			0.50 - 0.80 Ashy	1.30 - 2.00 High content. Cobbles are subangular of concrete and brick.																											
2.00 - 2.45					2.00																												
2.90	ES SPT	N=32			2.50	MADE GROUND: Brown slightly gravelly slightly clayey sand with a low cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, ash and sandstone. Cobbles are subangular of brick, concrete and sandstone.																											
3.00 - 3.45					3.00	Reddish brown silty fine to medium SAND.																											
4.00 - 4.45	SPT	pp 50/180mm			3.10	Brown gravelly SAND with a low cobble content. Gravel is subangular to rounded of sandstone. Cobbles are subangular to rounded of sandstone.	▼																										
5.00 - 5.45	SPT	pp 50/210mm			4.00	Weathered SANDSTONE recovered as slightly silty fine to medium sand.	▽																										
					5.00	Borehole Continues																											
					6.00																												
					7.00																												
					8.00																												
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level 			REMARKS Borehole drilled with cable percussive techniques followed on by rotary coring. No rock cores were obtained, logged as recovered soil. Ground water encountered at 4.00m rising to 3.50m. Borehole installed with ground gas and water monitoring standpipe. Scale: 1:50			Water Strikes <table><tr><th>Date</th><th>Strike</th><th>Level</th><th>Minutes</th><th>Casing</th><th>Sealed</th></tr><tr><td>28/04/2022</td><td>4</td><td>3.5</td><td>20</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				Date	Strike	Level	Minutes	Casing	Sealed	28/04/2022	4	3.5	20														
						Date	Strike	Level	Minutes	Casing	Sealed																						
						28/04/2022	4	3.5	20																								
Daily Log Of Depths <table><tr><th>Date</th><th>Casing</th><th>Water</th><th>From</th><th>To</th><th>Hours</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				Date	Casing	Water	From	To	Hours													Chiselling <table><tr><th>From</th><th>To</th><th>Hours</th></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>		From	To	Hours							
Date	Casing	Water	From	To	Hours																												
From	To	Hours																															

			Project Title: HMG Paints Manchester				BH2				
			Project Number: 10/1938		Client: HMG Paints Ltd					Sheet 1 Of 2	
			GL (mAOD):		N Coord: 0		E Coord: 0				
Date: 26/04/2022-27/04/2022			Method:		Driller: DMW Drilling Ltd		Logged By: SP				
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe			
0.50	ES				0.15 0.25 0.35	MADE GROUND: Concrete with 10% steel reinforcement.					
1.20 - 1.65	SPT	N=8			1.00	MADE GROUND: Tarmac.					
					1.60	MADE GROUND: Concrete with 10% steel reinforcement.					
1.80	ES				2.00	MADE GROUND: Brown becoming dark brown sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of brick, concrete, sandstone, glass and metal. Cobbles are subangular of brick and concrete.					
2.00 - 2.45	SPT	N=12			2.60	MADE GROUND: Light brown slightly gravelly fine to medium sand. Gravel is angular to subrounded, fine to coarse of ash, concrete and brick.					
2.30	ES				3.00	MADE GROUND: Brown slightly gravelly slightly clayey sand. Gravel is subangular to subrounded, fine to coarse of ash, concrete, sandstone and brick.					
2.70	ES				4.00	Weathered SANDSTONE recovered as very dense slightly silty fine to medium sand.					
3.00 - 3.45	SPT	pp 50/125mm			5.00						
4.00 - 4.45	SPT	pp 50/115mm			6.00						
5.00 - 5.45	SPT	pp 50/160mm			7.00						
6.00 - 6.45	SPT	pp 50/125mm			8.00						
7.50 - 7.95	SPT	pp 50/115mm				Borehole Continues					
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▽ - Groundwater Strike ▼ - Groundwater Level 			REMARKS Borehole drilled with cable percussive techniques followed on by rotary coring. No rock cores were obtained, logged as recovered soil. Ground water encountered at 4.00m rising to 3.60m. Borehole installed with ground gas and water monitoring standpipe. Scale: 1:50			Water Strikes					
						Date	Strike	Level	Minutes	Casing	Sealed
						28/04/2022	4	4	20		
			Daily Log Of Depths			Chiselling					
			Date	Casing	Water	From	To	Hours			

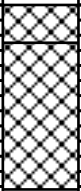
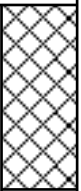
		Project Title: HMG Paints Manchester				BH2	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022-27/04/2022		Method:		Driller: DMW Drilling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
		pp 50/160mm			9.00	Weathered SANDSTONE recovered as very dense slightly silty fine to medium sand.		
		pp 50/135mm			10.00			
		pp 50/115mm			11.00			
		pp 50/115mm			12.00			
		pp 50/220mm			13.00			
		pp 50/115mm			14.00			
					15.00	End Of Borehole At 15.00 m		
					16.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole drilled with cable percussive techniques followed on by rotary coring. No rock cores were obtained, logged as recovered soil. Ground water encountered at 4.00m rising to 3.60m. Borehole installed with ground gas and water monitoring standpipe. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>28/04/2022</td> <td>4</td> <td>4</td> <td>20</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Daily Log Of Depths <table border="1"> <thead> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	28/04/2022	4	4	20															Date	Casing	Water	From	To	Hours												
Date	Strike	Level	Minutes	Casing	Sealed																																								
28/04/2022	4	4	20																																										
Date	Casing	Water	From	To	Hours																																								

			Project Title: HMG Paints Manchester				WS10				
			Project Number: 10/1938		Client: HMG Paints Ltd					Sheet 1 Of 1	
			GL (mAOD):		N Coord: 0		E Coord: 0				
Date: 27/04/2022			Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP				
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe			
					0.50	MADE GROUND: Concrete with 10% steel reinforcement.					
					1.00	MADE GROUND: Brown sandy gravel with a low cobble content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick, glass and ash. Cobbles are subangular to subrounded of concrete and brick.					
					2.00	MADE GROUND: Grey slightly silty sand with rare brick fragments. 2.00 - 3.00 Poor recovery					
					3.00	Very dense reddish brown slightly silty fine to medium SAND. End Of Borehole At 3.40 m					
					3.20						
					3.40						
					4.00						
					5.00						
					6.00						
					7.00						
					8.00						
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 			REMARKS No Groundwater Encountered Borehole undertaken to obtain wall foundation information. Borehole terminated due to refusal. Scale: 1:50			Water Strikes					
						Date	Strike	Level	Minutes	Casing	Sealed
						Daily Log Of Depths			Chiselling		
						Date	Casing	Water	From	To	Hours

		Project Title: HMG Paints Manchester				WS1a	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe				
1.00 - 1.22	SPT				0.25	MADE GROUND: Light grey decorative limestone gravel over, concrete with no rebar. MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete and brick. Cobbles are subangular of brick.						
					1.00							
					1.22							
					End Of Borehole At 1.22 m							
					2.00							
					3.00							
					4.00							
					5.00							
					6.00							
					7.00							
8.00												

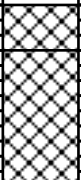
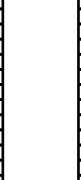
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Scale: 1:50		Water Strikes																									
				<table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						Date	Strike	Level	Minutes	Casing	Sealed														
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Daily Log Of Depths		Chiselling																											
		<table border="1"> <thead> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						Date	Casing	Water	From	To	Hours																
Date	Casing	Water	From	To	Hours																								

			Project Title: HMG Paints Manchester				WS1b	
			Project Number: 10/1938		Client: HMG Paints Ltd			
			GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022			Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES				0.30	MADE GROUND: Light grey decorative limestone gravel, over dark brown silty gravel. Gravel is angular to subrounded, fine to coarse of ash, concrete and brick.		
1.00 - 1.08	SPT	pp 50/50mm			1.00 1.08		MADE GROUND: Brown slightly sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick and timber. Cobbles of brick and concrete.	
					1.08	End Of Borehole At 1.08 m		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 			REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Scale: 1:50			Water Strikes																							
						<table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						Date	Strike	Level	Minutes	Casing	Sealed												
Date	Strike	Level	Minutes	Casing	Sealed																								
Daily Log Of Depths			Chiselling																										
			<table border="1"> <thead> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						Date	Casing	Water	From	To	Hours															
Date	Casing	Water	From	To	Hours																								

		Project Title: HMG Paints Manchester				WS2	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=7			0.30	MADE GROUND: Grass over, soft dark brown slightly gravelly silt with rootlets towards top of unit and rare cobbles. Gravel is angular to subrounded, fine to coarse of mudstone and brick. Cobbles are angular to subangular of brick.		
1.00 - 1.45	SPT				1.00 1.20			
1.80	ES				1.60	MADE GROUND: Brown sandy gravel. Gravel is angular to subrounded, fine to coarse of sandstone, brick, ash and concrete.		
2.00 - 2.32	SPT		pp 50/275mm		2.00 2.32			
						2.32		
						3.00	MADE GROUND: Brown sandy gravel with a low cobble content. Gravel is subangular to rounded, fine to coarse of slag, brick and sandstone. Cobbles are subangular of sandstone and brick.	
						4.00	End Of Borehole At 2.32 m	
						5.00		
						6.00		
						7.00		
						8.00		

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Borehole installed with ground gas and water monitoring standpipe.	Water Strikes																																
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			Project Title: HMG Paints Manchester				WS3a																									
			Project Number: 10/1938		Client: HMG Paints Ltd					Sheet 1 Of 1																						
			GL (mAOD):		N Coord: 0		E Coord: 0																									
Date: 27/04/2022			Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP																									
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe																								
					0.25	MADE GROUND: Concrete with no rebar.																										
					0.40	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, sandstone and brick. Cobbles are subangular to subrounded of sandstone.																										
					1.00	End Of Borehole At 0.40 m																										
					2.00																											
					3.00																											
					4.00																											
					5.00																											
					6.00																											
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Date	Casing	Water	From	To	Hours																											

		Project Title: HMG Paints Manchester				WS3b	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
					0.25	MADE GROUND: Concrete with no rebar.		
					0.40	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, sandstone and brick. Cobbles are subangular to subrounded of sandstone.		
					1.00	End Of Borehole At 0.40 m		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY

D - Disturbed Sample
B - Bulk Sample
U - Undisturbed
W - Water Sample
S - Standard Penetration Test
C - Cone Penetration Test
N - Penetration Test 'N' Value
V - Hand Shear Vane kPa
 - Groundwater Strike
 - Groundwater Level



REMARKS

No Groundwater Encountered
Borehole terminated due to refusal (cobble).

Scale: 1:50

Water Strikes

Date	Strike	Level	Minutes	Casing	Sealed

Daily Log Of Depths **Chiselling**

Date	Casing	Water	From	To	Hours

		Project Title: HMG Paints Manchester				WS4	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=4 pp 50/285mm			0.10	MADE GROUND: Tarmac.		
1.00 - 1.45	SPT				0.90 1.00	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, glass and sandstone. Cobbles are subangular of brick and concrete.		
1.50	ES					MADE GROUND: Dark becoming light brown slightly gravelly slightly clayey sand. Gravel is angular to subrounded, fine to coarse of slag, concrete and sandstone. Cobbles are subangular of concrete.		
2.00 - 2.43	SPT				2.00 2.43	End Of Borehole At 2.43 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal (cobble). Scale: 1:50		Water Strikes																									
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Date	Casing	Water	From	To	Hours																								

		Project Title: HMG Paints Manchester				WS5	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.70	ES	N=4			0.15	MADE GROUND: Concrete with no rebar.		
1.00 - 1.45	SPT				0.25	MADE GROUND: Tarmac.		
1.50	ES				0.30	MADE GROUND: Concrete with no rebar.		
2.00 - 2.39	SPT		pp 50/237mm			0.40	MADE GROUND: Red gravel. Gravel is subangular to subrounded, fine to coarse of brick.	
					1.00	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick and ash. Cobbles are subangular to subrounded of concrete and brick.		
					1.80			
					2.00			
					2.39	MADE GROUND: Light brown slightly gravelly sand with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of sandstone and brick. Cobbles are subangular to subrounded of brick.		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

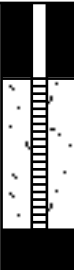
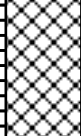
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		Project Title: HMG Paints Manchester				WS6	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES				0.15 0.25	MADE GROUND: Concrete with no rebar. MADE GROUND: Tarmac.		
1.00 - 1.45	SPT	N=4			1.00	MADE GROUND: Brown sandy gravel with a low cobble content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick, sandstone and ash. Cobbles are subangular to subrounded of concrete and brick.		
1.50	ES							
2.00 - 2.45	SPT	N=4			2.00	MADE GROUND: Light brown slightly gravelly sand with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of sandstone and brick. Cobbles are subangular to subrounded of brick.		
2.60	ES				2.50			
3.00 - 3.17	SPT	pp 50/90mm			3.00 3.17	Very dense reddish brown slightly silty fine to medium SAND.		
						End Of Borehole At 3.17 m		
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

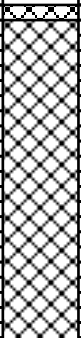
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		Project Title: HMG Paints Manchester				WS7	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.60	ES	N=10 pp 50/132mm			0.25 0.40	MADE GROUND: Concrete with 10% steel reinforcement.		
1.00 - 1.45	SPT				1.00	MADE GROUND: Grey gravel. Gravel is subangular to subrounded, fine to coarse of concrete.		
1.60 - 2.05	SPT				1.87 2.00	MADE GROUND: Brown sandy gravel with a low moderate content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick, sandstone and ash. Cobbles are subangular to subrounded of concrete and brick.		
						End Of Borehole At 1.87 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Borehole installed with ground gas and water monitoring standpipe.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed																		
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Date	Casing	Water	From	To	Hours																						

		Project Title: HMG Paints Manchester				WS8	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=10 pp 50/155mm			0.10	MADE GROUND: Tarmac. MADE GROUND: Brown slightly gravelly sand with a high cobble content. Gravel is angular to subrounded, fine to coarse of brick, sandstone and concrete. Cobbles are angular to subangular of concrete.		
1.00 - 1.45	SPT		1.00					
1.50	ES		2.00					
2.00 - 2.31	SPT		2.31					
						End Of Borehole At 2.31 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

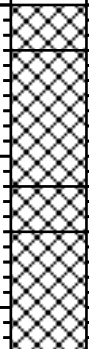
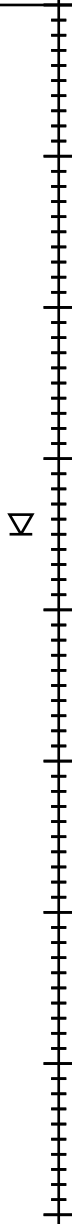
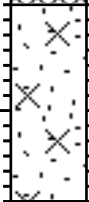
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Date	Casing	Water	From	To	Hours																								

		Project Title: HMG Paints Manchester				WS9	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=11 pp 50/130mm			0.30	MADE GROUND: Grass over, soft dark brown slightly gravelly silt with rootlets towards top of unit. Gravel is angular to subrounded, fine to coarse of clinker, mudstone and brick.		
1.00 - 1.45	SPT				1.00	MADE GROUND: Brown cobbly gravel. Gravel is angular to subrounded, fine to coarse of sandstone, brick, ash and concrete.		
1.50	ES				1.80	MADE GROUND: Light brown slightly clayey slightly gravelly sand. Gravel is angular to subrounded, fine to coarse of sandstone, concrete and brick.		
2.00 - 2.27	SPT				2.00 2.27	MADE GROUND: Brown gravelly sand. Gravel is subangular to rounded, fine to coarse of slag, brick and sandstone. End Of Borehole At 2.27 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Scale: 1:50		Water Strikes																									
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Date	Casing	Water	From	To	Hours																								

		Project Title: HMG Paints Manchester				TP1	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Excavator		Driller: H and C Plant Hire Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
2.00	B				0.30	MADE GROUND: Concrete no rebar.		
					1.00	MADE GROUND: Brown slightly sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, glass, slag, metal and ash. MADE GROUND: Light grey sandy gravel with a high cobble content. Gravel is angular to subrounded of concrete and brick. Cobbles are angular to subangular of brick and concrete. MADE GROUND: Brown slightly sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, glass, slag, metal and ash. Reddish brown fine to medium slightly silty SAND.		
					1.20			
					1.50			
					2.00			
3.40	D				2.30			
					3.00			
					3.60			
					4.00	End Of Borehole At 3.60 m		
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Trial pit excavated to understand nature of wall foundations. No foundation/toe observed. Groundwater encountered at 3.50m. 	Water Strikes																									
			<table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>28/04/2022</td> <td>3.5</td> <td>20</td> <td>3.4</td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	28/04/2022	3.5	20	3.4															Daily Log Of Depths
Date	Strike	Level	Minutes	Casing	Sealed																							
28/04/2022	3.5	20	3.4																									
<table border="1"> <thead> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Casing	Water	From	To	Hours																						
Date	Casing	Water	From	To	Hours																							

APPENDIX III
CHEMICAL LABORATORY CERTIFICATES

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 22/04237
Issue Number: 1

Date: 13 May, 2022

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Phil Hill/Sean Pilling/Sophie Harper-Pryce
Project Name: HMG Paints
Project Ref: 10/1938
Order No: 31073 / PJH / ZW
Date Samples Received: 29/04/22
Date Instructions Received: 03/05/22
Date Analysis Completed: 12/05/22

Approved by:



Sophie France
Client Service Manager

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	WS4	WS6	WS7	WS9			
Depth to Top	0.60	0.60	0.50	0.50	0.50	0.60	0.50			
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	27-Apr-22	26-Apr-22			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AB	4AB	6AB	4AB	4AB	5A	6AB			
% Stones >10mm _A	<0.1	8.8	17.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH _D ^{M#}	9.74	12.10	9.11	8.47	8.46	8.19	8.22	pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.10	<0.01	-	-	-	-	-	g/l	0.01	A-T-026s
Arsenic _D ^{M#}	16	3	7	19	12	13	17	mg/kg	1	A-T-024s
Beryllium _D	1.4	<0.5	1.0	1.1	<0.5	1.0	0.9	mg/kg	0.5	A-T-024s
Boron (water soluble) _D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	mg/kg	1	A-T-027s
Cadmium _D ^{M#}	1.5	0.6	1.7	1.4	0.8	1.5	2.2	mg/kg	0.5	A-T-024s
Copper _D ^{M#}	57	16	46	49	76	53	84	mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Lead _D ^{M#}	148	61	250	106	193	358	343	mg/kg	1	A-T-024s
Mercury _D	0.77	2.06	0.80	0.41	1.24	<0.17	0.56	mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	22	12	17	24	11	22	26	mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Vanadium _D ^{M#}	29	23	28	27	15	27	31	mg/kg	1	A-T-024s
Zinc _D ^{M#}	74	57	156	50	58	52	162	mg/kg	5	A-T-024s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	WS4	WS6	WS7	WS9			
Depth to Top	0.60	0.60	0.50	0.50	0.50	0.60	0.50			
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	27-Apr-22	26-Apr-22			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AB	4AB	6AB	4AB	4AB	5A	6AB			
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	NAD	NAD	NAD	Amosite & Chrysotile			A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-	Loose Fibres			A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045
Asbestos in Soil Quantification % (Hand Picking & Weighing)										
Asbestos in soil % composition (hand picking and weighing) _D	-	-	-	-	-	-	0.013	% w/w	0.001	A-T-054

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	WS4	WS6	WS7	WS9			
Depth to Top	0.60	0.60	0.50	0.50	0.50	0.60	0.50			
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	27-Apr-22	26-Apr-22			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AB	4AB	6AB	4AB	4AB	5A	6AB			
PAH-16MS										
Acenaphthene _A ^{M#}	0.09	0.32	<0.01	3.65	<0.01	<0.01	8.66	mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.03	0.03	0.03	0.29	<0.01	0.01	0.51	mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.16	0.49	0.07	7.28	<0.02	0.03	13.9	mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.60	1.00	0.29	14.9	0.34	0.15	34.1	mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.87	1.04	0.37	13.2	0.41	0.19	29	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.75	0.94	0.33	13.4	0.43	0.17	32.9	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.46	0.59	0.18	7.79	0.21	0.08	22.9	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.30	0.37	0.14	5.58	0.16	<0.07	14.2	mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.66	0.94	0.24	16	0.40	0.15	39.5	mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.14	0.13	0.05	2.28	0.06	<0.04	5.98	mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	1.14	2.83	0.44	32	0.46	0.26	66.2	mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.06	0.19	0.02	2.49	<0.01	<0.01	5.86	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.51	0.67	0.21	9.57	0.21	0.10	28.8	mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	0.17	0.15	0.14	0.95	<0.03	0.05	1.57	mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	1.01	2.32	0.40	28.3	0.19	0.22	55.4	mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	1.24	2.21	0.48	29.4	0.49	0.27	60.4	mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	8.19	14.2	3.39	187	3.36	1.68	420	mg/kg	0.01	A-T-019s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	WS4	WS6	WS7	WS9			
Depth to Top	0.60	0.60	0.50	0.50	0.50	0.60	0.50			
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	27-Apr-22	26-Apr-22			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AB	4AB	6AB	4AB	4AB	5A	6AB			
VOC										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Chloromethane _A	<10	<10	<10	<10	<10	<10	<10	µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dichloromethane _A	<5	<5	<5	<5	<5	<5	<5	µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5	<5	µg/kg	5	A-T-006s
Chloroform _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
Benzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10	<10	µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Toluene _A [#]	<1	<1	<1	<1	2	<1	<1	µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3	<3	µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	WS4	WS6	WS7	WS9			
Depth to Top	0.60	0.60	0.50	0.50	0.50	0.60	0.50			
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	27-Apr-22	26-Apr-22			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AB	4AB	6AB	4AB	4AB	5A	6AB			
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Styrene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromoform _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	<2	<2	<2	<2	<2	<2	µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	<3	<3	<3	<3	<3	<3	µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	<3	<3	<3	<3	<3	<3	µg/kg	3	A-T-006s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	WS4	WS6	WS7	WS9			
Depth to Top	0.60	0.60	0.50	0.50	0.50	0.60	0.50			
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	26-Apr-22	27-Apr-22	26-Apr-22			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	4AB	4AB	6AB	4AB	4AB	5A	6AB			
TPH CWG with Clean Up *C1										
Ali >C5-C6 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	<1	<1	3	<1	<1	<10	mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	<1	<1	6	<1	<1	<10	mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	1	<1	2	<1	<1	<10	mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	2	3	<1	5	<1	<1	14	mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	10	37	<1	27	6	2	42	mg/kg	1	A-T-055s
Total Aliphatics _A	13	41	<1	43	6	2	57	mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	15	<1	<1	1	<1	<10	mg/kg	1	A-T-055s
Aro >C10-C12 _A	<1	<1	<1	2	<1	<1	<10	mg/kg	1	A-T-055s
Aro >C12-C16 _A	3	6	<1	35	<1	1	123	mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	9	27	4	156	<1	3	612	mg/kg	1	A-T-055s
Aro >C21-C35 _A	21	56	11	392	8	12	1560	mg/kg	1	A-T-055s
Total Aromatics _A	34	104	15	585	9	16	2290	mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	46	145	15	628	15	19	2350	mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12	22/04237/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	BH1	BH2	WS6				
Depth to Top	1.90	1.80	1.80	2.90	2.70	2.60				
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	27-Apr-22	25-Apr-22	26-Apr-22	26-Apr-22				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4AB	4AB	4AB	5A	4A	4A				
% Stones >10mm _A	<0.1	<0.1	23.0	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH _D ^{M#}	9.20	10.93	8.72	8.11	8.57	8.57		pH	0.01	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	0.07	0.13	-	0.02	0.03	-		g/l	0.01	A-T-026s
Arsenic _D ^{M#}	14	9	2	16	<1	4		mg/kg	1	A-T-024s
Beryllium _D	0.7	0.7	<0.5	<0.5	<0.5	<0.5		mg/kg	0.5	A-T-024s
Boron (water soluble) _D	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium _D ^{M#}	1.1	1.3	0.9	0.9	0.6	0.6		mg/kg	0.5	A-T-024s
Copper _D ^{M#}	33	45	8	6	4	5		mg/kg	1	A-T-024s
Chromium (hexavalent) _D	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Lead _D ^{M#}	130	191	13	8	10	14		mg/kg	1	A-T-024s
Mercury _D	0.60	1.19	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	16	19	15	5	7	8		mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Vanadium _D ^{M#}	23	28	14	9	17	29		mg/kg	1	A-T-024s
Zinc _D ^{M#}	65	80	28	18	12	15		mg/kg	5	A-T-024s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12	22/04237/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	BH1	BH2	WS6				
Depth to Top	1.90	1.80	1.80	2.90	2.70	2.60				
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	27-Apr-22	25-Apr-22	26-Apr-22	26-Apr-22				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4AB	4AB	4AB	5A	4A	4A				
Asbestos in Soil (inc. matrix)										
Asbestos in soil _D [#]	NAD	NAD	NAD	-	-	-				A-T-045
Asbestos Matrix (visual) _D	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope) _D	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	N/A	N/A	-	-	-				A-T-045

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12	22/04237/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	BH1	BH2	WS6				
Depth to Top	1.90	1.80	1.80	2.90	2.70	2.60				
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	27-Apr-22	25-Apr-22	26-Apr-22	26-Apr-22				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4AB	4AB	4AB	5A	4A	4A				
PAH-16MS										
Acenaphthene _A ^{M#}	0.07	4.38	<0.01	<0.01	0.21	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.01	0.10	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.08	6.39	<0.02	<0.02	0.32	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.23	10.1	<0.04	<0.04	0.58	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.33	8.74	<0.04	<0.04	0.61	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.27	8.94	<0.05	<0.05	0.56	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.17	3.40	<0.05	<0.05	0.28	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.11	3.38	<0.07	<0.07	0.23	<0.07		mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.24	8.87	<0.06	<0.06	0.60	<0.06		mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	1.00	<0.04	<0.04	0.08	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.46	28.8	<0.08	<0.08	1.74	<0.08		mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.06	3.32	<0.01	<0.01	0.15	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.17	4.72	<0.03	<0.03	0.34	<0.03		mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	0.22	0.68	<0.03	<0.03	0.04	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.56	28.2	<0.03	<0.03	1.58	<0.03		mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.47	23.1	<0.07	<0.07	1.41	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	3.45	144	<0.08	<0.08	8.73	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12	22/04237/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	BH1	BH2	WS6				
Depth to Top	1.90	1.80	1.80	2.90	2.70	2.60				
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	27-Apr-22	25-Apr-22	26-Apr-22	26-Apr-22				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4AB	4AB	4AB	5A	4A	4A				
VOC										
Dichlorodifluoromethane _A	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Chloromethane _A	<10	-	-	-	-	-		µg/kg	10	A-T-006s
Vinyl Chloride (Chloroethene) _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Bromomethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Chloroethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Trichlorofluoromethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1-Dichloroethene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Carbon Disulphide _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Dichloromethane _A	<5	-	-	-	-	-		µg/kg	5	A-T-006s
trans 1,2-Dichloroethene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1-Dichloroethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
cis 1,2-Dichloroethene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
2,2-Dichloropropane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Bromochloromethane _A [#]	<5	-	-	-	-	-		µg/kg	5	A-T-006s
Chloroform _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1,1-Trichloroethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1-Dichloropropene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Carbon Tetrachloride _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,2-Dichloroethane _A [#]	<2	-	-	-	-	-		µg/kg	2	A-T-006s
Benzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Trichloroethene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,2-Dichloropropane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Dibromomethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Bromodichloromethane _A [#]	<10	-	-	-	-	-		µg/kg	10	A-T-006s
cis 1,3-Dichloropropene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Toluene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
trans 1,3-Dichloropropene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1,2-Trichloroethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,3-Dichloropropane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Tetrachloroethene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Dibromochloromethane _A [#]	<3	-	-	-	-	-		µg/kg	3	A-T-006s
1,2-Dibromoethane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12	22/04237/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	BH1	BH2	WS6				
Depth to Top	1.90	1.80	1.80	2.90	2.70	2.60				
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	27-Apr-22	25-Apr-22	26-Apr-22	26-Apr-22				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4AB	4AB	4AB	5A	4A	4A				
Chlorobenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1,1,2-Tetrachloroethane _A	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Ethylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
m & p Xylene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
o-Xylene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Styrene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Bromoform _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Isopropylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,1,1,2,2-Tetrachloroethane _A	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,2,3-Trichloropropane _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
Bromobenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
n-Propylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
2-Chlorotoluene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,3,5-Trimethylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
4-Chlorotoluene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
tert-Butylbenzene _A [#]	<2	-	-	-	-	-		µg/kg	2	A-T-006s
1,2,4-Trimethylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
sec-Butylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
4-Isopropyltoluene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,3-Dichlorobenzene _A	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,4-Dichlorobenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
n-Butylbenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,2-Dichlorobenzene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,2-Dibromo-3-chloropropane (DCBP) _A	<2	-	-	-	-	-		µg/kg	2	A-T-006s
1,2,4-Trichlorobenzene _A	<3	-	-	-	-	-		µg/kg	3	A-T-006s
Hexachlorobutadiene _A [#]	<1	-	-	-	-	-		µg/kg	1	A-T-006s
1,2,3-Trichlorobenzene _A	<3	-	-	-	-	-		µg/kg	3	A-T-006s

Envirolab Job Number: 22/04237

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12	22/04237/13		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1	BH2	WS2	BH1	BH2	WS6				
Depth to Top	1.90	1.80	1.80	2.90	2.70	2.60				
Depth To Bottom										
Date Sampled	25-Apr-22	26-Apr-22	27-Apr-22	25-Apr-22	26-Apr-22	26-Apr-22				
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES				
Sample Matrix Code	4AB	4AB	4AB	5A	4A	4A				
TPH CWG with Clean Up *C1										
Ali >C5-C6 _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	-	-	-	-	-		mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	-	-	-	-		mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-	-	-	-	-		mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	2	-	-	-	-	-		mg/kg	1	A-T-055s
Ali >C21-C35 _A ^{M#}	33	-	-	-	-	-		mg/kg	1	A-T-055s
Total Aliphatics _A	35	-	-	-	-	-		mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	-	-	-	-	-		mg/kg	1	A-T-055s
Aro >C10-C12 _A	1	-	-	-	-	-		mg/kg	1	A-T-055s
Aro >C12-C16 _A	4	-	-	-	-	-		mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	7	-	-	-	-	-		mg/kg	1	A-T-055s
Aro >C21-C35 _A	17	-	-	-	-	-		mg/kg	1	A-T-055s
Total Aromatics _A	29	-	-	-	-	-		mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	64	-	-	-	-	-		mg/kg	1	A-T-055s
BTEX - Benzene _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s
MTBE _A [#]	<0.01	-	-	-	-	-		mg/kg	0.01	A-T-022s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

EPH CWG results have humics mathematically subtracted through instrument calculation

TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Clancy Consulting, Dunham Court, 2 Dunham Road, Altrincham, Cheshire, UK, WA14 4NX

Project: HMG Paints

Clients Project No: 10/1938

Project No: 22/04237

Date Received: 03/05/2022 (am)

Cool Box Temperatures (°C): 11.6 & 12.0

Lab Sample ID	22/04237/11
Client Sample No	
Client Sample ID/Depth	BH1 2.90m
Date Sampled	25/04/22
Deviation Code	
F	✓

Key

F Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	22/04237/11
Client Sample No	
Client Sample ID/Depth	BH1 2.90m
Date Sampled	25/04/22
PAH (total 17)	✓
BTEX (total)	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	22/04237/1	22/04237/2	22/04237/3	22/04237/4	22/04237/5	22/04237/6	22/04237/7	22/04237/8	22/04237/9	22/04237/10	22/04237/11	22/04237/12
Client Sample No												
Client Sample ID/Depth	BH1 0.60m	BH2 0.60m	WS2 0.50m	WS4 0.50m	WS6 0.50m	WS7 0.60m	WS9 0.50m	BH1 1.90m	BH2 1.80m	WS2 1.80m	BH1 2.90m	BH2 2.70m
Date Sampled	25/04/22	26/04/22	26/04/22	26/04/22	26/04/22	27/04/22	26/04/22	25/04/22	26/04/22	27/04/22	25/04/22	26/04/22
A-T-004s	11/05/2022	11/05/2022									11/05/2022	
A-T-006s	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022				
A-T-007s	09/05/2022	09/05/2022									09/05/2022	
A-T-019s	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022	10/05/2022
A-T-022s	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022			09/05/2022	
A-T-024s	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
A-T-025w	12/05/2022	12/05/2022									12/05/2022	
A-T-026s	12/05/2022	12/05/2022						12/05/2022	12/05/2022		12/05/2022	12/05/2022
A-T-026w	12/05/2022	12/05/2022									12/05/2022	
A-T-027s	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022
A-T-030s	11/05/2022	11/05/2022									11/05/2022	
A-T-031s	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022	11/05/2022
A-T-031w	12/05/2022	12/05/2022									12/05/2022	
A-T-032s											11/05/2022	
A-T-032w	12/05/2022	12/05/2022									12/05/2022	
A-T-037w	12/05/2022	12/05/2022									12/05/2022	
A-T-040s	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022	12/05/2022
A-T-044	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
A-T-045	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022		
A-T-050w	12/05/2022	12/05/2022									12/05/2022	
A-T-054							10/05/2022					
A-T-055s	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022				
A-T-ANCs	11/05/2022	11/05/2022									11/05/2022	
Calc-no stones	12/05/2022	12/05/2022									12/05/2022	
Probe (w)	12/05/2022	12/05/2022									12/05/2022	

Lab Sample ID	22/04237/13
Client Sample No	
Client Sample ID/Depth	WS6 2.60m
Date Sampled	26/04/22
A-T-004s	
A-T-006s	
A-T-007s	
A-T-019s	10/05/2022
A-T-022s	
A-T-024s	12/05/2022
A-T-025w	
A-T-026s	
A-T-026w	
A-T-027s	11/05/2022
A-T-030s	
A-T-031s	11/05/2022
A-T-031w	
A-T-032s	
A-T-032w	
A-T-037w	
A-T-040s	12/05/2022
A-T-044	09/05/2022
A-T-045	
A-T-050w	
A-T-054	
A-T-055s	
A-T-ANCs	
Calc-no stones	
Probe (w)	

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Final Test Report

Envirolab Job Number: 22/04237
Issue Number: 1

Date: 13-May-22

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK, WA14 4NX

Project Manager: Phil Hill/Sean Pilling/Sophie Harper-Pryce
Project Name: HMG Paints
Project Ref: Oct-38
Order No: 31073 / PJH / ZW

Date Samples Received: 29-Apr-22
Date Instructions Received: 3-May-22
Date Analysis Completed: 12-May-22

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

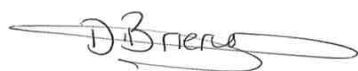
IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Sample Details								
Lab Sample ID	Method	ISO17025	MCERTS	22/04237/1	Landfill Waste Acceptance Criteria Limits			
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				BH1				
Depth to Top				0.6				
Depth to Bottom								
Date Sampled				25/04/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4AB				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	9.74	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.7	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.7	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	2.8	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N		3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	8.35	100	-	-	
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	41	500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007	1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-	
Eluate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.016	0.160	0.5	2	25
Barium	A-T-025	N	N	0.025	0.250	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.002	0.020	0.5	10	70
Copper	A-T-025	N	N	0.025	0.250	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	0.020	0.5	10	30
Nickel	A-T-025	N	N	0.002	0.020	0.4	10	40
Lead	A-T-025	N	N	0.054	0.540	0.5	10	50
Antimony	A-T-025	N	N	0.002	0.020	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.029	0.290	4	50	200
Chloride	A-T-026	N	N	5	49	800	15000	25000
Fluoride	A-T-026	N	N	0.5	5.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	5	46	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	61	610	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.9				
Conductivity (µS/cm)	A-T-037	N	N	123				
Mass Sample (kg)				0.202				
Dry Matter (%)	A-T-044	N	N	86.7				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Sample Details									
Lab Sample ID	Method	ISO17025	MCERTS	22/04237/2		Landfill Waste Acceptance Criteria Limits			
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				BH2					
Depth to Top				0.6					
Depth to Bottom									
Date Sampled				26/04/2022					
Sample Type				Soil - ES					
Sample Matrix Code				4AB					
Solid Waste Analysis									
pH (pH Units) _D	A-T-031	N	N	12.10		-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	2.04		-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.85		-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	2.9		-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N			3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	14.5		100	-	-	
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	144		500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007		1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01		6	-	-	
Eluate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)			
Arsenic	A-T-025	N	N	<0.001	<0.01	0.5	2	25	
Barium	A-T-025	N	N	2.674	26.740	20	100	300	
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5	
Chromium	A-T-025	N	N	0.076	0.760	0.5	10	70	
Copper	A-T-025	N	N	0.013	0.130	2	50	100	
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2	
Molybdenum	A-T-025	N	N	0.002	0.020	0.5	10	30	
Nickel	A-T-025	N	N	<0.001	<0.01	0.4	10	40	
Lead	A-T-025	N	N	0.012	0.120	0.5	10	50	
Antimony	A-T-025	N	N	<0.001	<0.01	0.06	0.7	5	
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7	
Zinc	A-T-025	N	N	0.004	0.040	4	50	200	
Chloride	A-T-026	N	N	4	45	800	15000	25000	
Fluoride	A-T-026	N	N	<0.10	<1	10	150	500	
Sulphate as SO ₄	A-T-026	N	N	<1.00	<10	1000	20000	50000	
Total Dissolved Solids	A-T-035	N	N	2487	24870	4000	60000	100000	
Phenol Index	A-T-050	N	N	0.10	1.00	1	-	-	
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	800	1000	
Leach Test Information									
pH (pH Units)	A-T-031	N	N	11.9					
Conductivity (µS/cm)	A-T-037	N	N	4973					
Mass Sample (kg)				0.195					
Dry Matter (%)	A-T-044	N	N	89.7					
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation									

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/04237/11				
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BH1				
Depth to Top				2.9				
Depth to Bottom								
Date Sampled				25/04/2022				
Sample Type				Soil - ES				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	8.11		-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.04		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.04		-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	1.4		-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	0.12		3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	<0.08		100	-	-
Mineral Oil (mg/kg) _{A EH, CU, ID, AL}	A-T-007	N	N	46		500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007		1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01		6	-	-
Elate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.004	0.040	0.5	2	25
Barium	A-T-025	N	N	0.014	0.140	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.001	0.010	0.5	10	70
Copper	A-T-025	N	N	0.007	0.070	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	0.050	0.5	10	30
Nickel	A-T-025	N	N	0.001	0.010	0.4	10	40
Lead	A-T-025	N	N	0.006	0.060	0.5	10	50
Antimony	A-T-025	N	N	<0.001	<0.01	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.015	0.150	4	50	200
Chloride	A-T-026	N	N	2	21	800	15000	25000
Fluoride	A-T-026	N	N	0.3	3.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	10	97	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	55	550	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	9.1				
Conductivity (µS/cm)	A-T-037	N	N	110				
Mass Sample (kg)				0.206				
Dry Matter (%)	A-T-044	N	N	85.2				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 22/04775
Issue Number: 1

Date: 30 May, 2022

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Phil Hill/Sean Pilling/Sophie Harper-Pryce
Project Name: HMG Paints
Project Ref: 10/1938
Order No: 31104
Date Samples Received: 13/05/22
Date Instructions Received: 17/05/22
Date Analysis Completed: 30/05/22

Approved by:



Sophie France
Client Service Manager

Envirolab Job Number: 22/04775

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04775/1	22/04775/2	22/04775/3	22/04775/4	22/04775/5	22/04775/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	DOWN STR	DOWN CUL	UP STR	UP CUL				
Depth to Top	3.00	3.00	3.50	3.50	2.00					
Depth To Bottom										
Date Sampled	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
pH (w) _A [#]	6.86	6.83	7.63	7.49	7.34	7.78		pH	0.01	A-T-031w
Electrical conductivity @ 20degC (w) _A [#]	1808	1653	500	977	524	990		µs/cm	10	A-T-037w
Hardness Total _A [#]	777	772	159	472	172	441		mg/l Ca CO3	2	A-T-049w
Sulphide (w) _A	<0.1	<0.1	<0.1	0.5	<0.1	0.3		mg/l	0.1	A-T-043-w
Arsenic (dissolved) _A [#]	1	<1	2	5	3	5		µg/l	1	A-T-025w
Boron (dissolved) _A [#]	2490	1390	70	292	85	290		µg/l	10	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	0.3	<0.2	<0.2	<0.2	<0.2		µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	5	8	13	5	4	4		µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	0.06	<0.01	<0.01	<0.01	<0.01	<0.01		mg/l	0.01	A-T-040w
Lead (dissolved) _A [#]	<1	<1	2	<1	2	<1		µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	22	16	2	4	2	4		µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	<1	1	<1	<1	<1	<1		µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	7	9	39	10	44	12		µg/l	1	A-T-025w

Envirolab Job Number: 22/04775

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04775/1	22/04775/2	22/04775/3	22/04775/4	22/04775/5	22/04775/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	DOWN STR	DOWN CUL	UP STR	UP CUL				
Depth to Top	3.00	3.00	3.50	3.50	2.00					
Depth To Bottom										
Date Sampled	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	0.14	<0.01	0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	0.22	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	0.75	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	0.75	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	0.98	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	0.42	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	0.31	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	0.91	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	0.06	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	0.01	2.00	<0.01	0.02	<0.01	<0.01		µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	0.09	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	0.45	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	0.01	<0.01		µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	1.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	0.01	2.16	<0.01	0.02	<0.01	<0.01		µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	-	-	-	-	-	-		µg/l	0.01	A-T-019w

Envirolab Job Number: 22/04775

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04775/1	22/04775/2	22/04775/3	22/04775/4	22/04775/5	22/04775/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	DOWN STR	DOWN CUL	UP STR	UP CUL				
Depth to Top	3.00	3.00	3.50	3.50	2.00					
Depth To Bottom										
Date Sampled	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10		µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	6	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	11	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2		µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10		µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3		µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w

Envirolab Job Number: 22/04775

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04775/1	22/04775/2	22/04775/3	22/04775/4	22/04775/5	22/04775/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	DOWN STR	DOWN CUL	UP STR	UP CUL				
Depth to Top	3.00	3.00	3.50	3.50	2.00					
Depth To Bottom										
Date Sampled	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromoform _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2		µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2		µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3		µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3		µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w

Envirolab Job Number: 22/04775

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/04775/1	22/04775/2	22/04775/3	22/04775/4	22/04775/5	22/04775/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	DOWN STR	DOWN CUL	UP STR	UP CUL				
Depth to Top	3.00	3.00	3.50	3.50	2.00					
Depth To Bottom										
Date Sampled	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22	13-May-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
TPH CWG (w) with Clean Up *C1										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	11	<5	<5		µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	<5	<5	<5	11	<5	<5		µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	7	14	9	<5		µg/l	5	A-T-055w
Aro >C21-C35 (w) _A	<10	<10	<10	<10	<10	<10		µg/l	10	A-T-055w
Total Aromatics (w) _A	<10	<10	<10	14	<10	<10		µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	<10	<10	<10	25	<10	<10		µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

EPH CWG results have humics mathematically subtracted through instrument calculation

TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Clancy Consulting, Dunham Court, 2 Dunham Road, Altrincham, Cheshire, UK, WA14 4NX	Project No:	22/04775
Project:	HMG Paints	Date Received:	17/05/2022 (am)
Clients Project No:	10/1938	Cool Box Temperatures (°C):	15.9 & 16.1

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	22/04775/1	22/04775/2	22/04775/3	22/04775/4	22/04775/5	22/04775/6
Client Sample No						
Client Sample ID/Depth	BH1-W 3.00m	BH2-W 3.00m	DOWN STR 3.50m	DOWN CUL 3.50m	UP STR 2.00m	UP CUL
Date Sampled	13/05/22	13/05/22	13/05/22	13/05/22	13/05/22	13/05/22
A-T-006w	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
A-T-019w	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
A-T-022w	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022	20/05/2022
A-T-025w	30/05/2022	30/05/2022	30/05/2022	30/05/2022	30/05/2022	30/05/2022
A-T-031w	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
A-T-037w	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
A-T-040w	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022
A-T-043-w	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
A-T-049w	30/05/2022	30/05/2022	30/05/2022	30/05/2022	30/05/2022	30/05/2022
A-T-055w	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

FINAL ANALYTICAL TEST REPORT

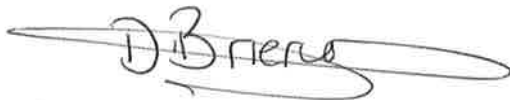
Envirolab Job Number: 22/05704
Issue Number: 1

Date: 22 June, 2022

Client: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
UK
WA14 4NX

Project Manager: Sean Pilling/Sophie Harper-Pryce
Project Name: HMG Paints
Project Ref: 10/1938
Order No: TBC
Date Samples Received: 09/06/22
Date Instructions Received: 10/06/22
Date Analysis Completed: 22/06/22

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Envirolab Job Number: 22/05704

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/05704/1	22/05704/2	22/05704/3	22/05704/4	22/05704/5	22/05704/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	Down Str.	Down Cul.	Up Str.	Up Cul.				
Depth to Top	3.00	3.00								
Depth To Bottom										
Date Sampled	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
pH (w) [#]	6.88	6.81	7.81	7.55	7.68	7.74		pH	0.01	A-T-031w
Electrical conductivity @ 20degC (w) [#]	1874	1608	495	932	500	944		µs/cm	10	A-T-037w
Alkalinity by titration (carbonate) (w) _A	<15	<15	<15	<15	<15	<15		mg/l Ca CO ₃	15	Titration w
Sulphide (w) _A	4.0	4.2	<0.1	5.2	<0.1	1.8		mg/l	0.1	A-T-043-w
Arsenic (dissolved) _A [#]	1	<1	3	5	3	5		µg/l	1	A-T-025w
Boron (dissolved) _A [#]	2820	1560	68	275	74	281		µg/l	10	A-T-025w
Beryllium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		µg/l	0.2	A-T-025w
Copper (dissolved) _A	3	9	15	12	12	13		µg/l	1	A-T-025w
Chromium (hexavalent) (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/l	0.01	A-T-040w
Lead (dissolved) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	21	13	2	4	3	4		µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-025w
Vanadium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	6	7	16	9	16	11		µg/l	1	A-T-025w

Envirolab Job Number: 22/05704

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/05704/1	22/05704/2	22/05704/3	22/05704/4	22/05704/5	22/05704/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	Down Str.	Down Cul.	Up Str.	Up Cul.				
Depth to Top	3.00	3.00								
Depth To Bottom										
Date Sampled	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	0.01	0.01	0.01	<0.01		µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	0.03	<0.01	0.02		µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	<0.01	<0.01	0.02	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.01	0.11	<0.01	0.02	<0.01	0.03		µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	<0.01	0.11	0.03	0.06	0.01	0.05		µg/l	0.01	A-T-019w

Envirolab Job Number: 22/05704

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/05704/1	22/05704/2	22/05704/3	22/05704/4	22/05704/5	22/05704/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	Down Str.	Down Cul.	Up Str.	Up Cul.				
Depth to Top	3.00	3.00								
Depth To Bottom										
Date Sampled	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Chloromethane _A	<10	<10	<10	<10	<10	<10		µg/l	10	A-T-006w
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Dichloromethane _A	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-006w
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	6	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	11	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-006w
Chloroform _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2		µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Benzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10		µg/l	10	A-T-006w
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Toluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3		µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w

Envirolab Job Number: 22/05704

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/05704/1	22/05704/2	22/05704/3	22/05704/4	22/05704/5	22/05704/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	Down Str.	Down Cul.	Up Str.	Up Cul.				
Depth to Top	3.00	3.00								
Depth To Bottom										
Date Sampled	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromoform _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Styrene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2		µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2		µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3		µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3		µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-006w

Envirolab Job Number: 22/05704

Client Project Name: HMG Paints

Client Project Ref: 10/1938

Lab Sample ID	22/05704/1	22/05704/2	22/05704/3	22/05704/4	22/05704/5	22/05704/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	BH1-W	BH2-W	Down Str.	Down Cul.	Up Str.	Up Cul.				
Depth to Top	3.00	3.00								
Depth To Bottom										
Date Sampled	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
TPH CWG (w) with Clean Up *C1										
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	<5		µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	<5	<5	10	10	8	10		µg/l	5	A-T-055w
Aro >C21-C35 (w) _A	<10	<10	<10	<10	<10	<10		µg/l	10	A-T-055w
Total Aromatics (w) _A	<10	<10	10	10	<10	10		µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	<10	<10	10	10	<10	10		µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	<1	<1		µg/l	1	A-T-022w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample, 9 = INCINERATOR ASH.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

EPH CWG results have humics mathematically subtracted through instrument calculation

TPH results "with Cleanup" indicates results cleaned up with Silica during extraction

EPH CWG GCxGC ID from TPH CWG

Where we have identified humic substances in any ID's from TPH CWG with Clean Up please note that the concentration of these humic substances is not included in the quantified results and are included in the ID for information.

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client:	Clancy Consulting, Dunham Court, 2 Dunham Road, Altrincham, Cheshire, UK, WA14 4NX	Project No:	22/05704
Project:	HMG Paints	Date Received:	10/06/2022 (am)
Clients Project No:	10/1938	Cool Box Temperatures (°C):	12.5 & 12.6

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	22/05704/1	22/05704/2	22/05704/3	22/05704/4	22/05704/5	22/05704/6
Client Sample No						
Client Sample ID/Depth	BH1-W 3.00m	BH2-W 3.00m	Down Str.	Down Cul.	Up Str.	Up Cul.
Date Sampled	07/06/22	07/06/22	07/06/22	07/06/22	07/06/22	07/06/22
A-T-006w	16/06/2022	16/06/2022	16/06/2022	16/06/2022	16/06/2022	16/06/2022
A-T-019w	15/06/2022	15/06/2022	15/06/2022	15/06/2022	15/06/2022	15/06/2022
A-T-022w	17/06/2022	17/06/2022	17/06/2022	17/06/2022	17/06/2022	17/06/2022
A-T-025w	20/06/2022	20/06/2022	20/06/2022	20/06/2022	20/06/2022	20/06/2022
A-T-031w	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022
A-T-037w	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022
A-T-040w	22/06/2022	22/06/2022	22/06/2022	22/06/2022	22/06/2022	22/06/2022
A-T-043-w	13/06/2022	13/06/2022	13/06/2022	13/06/2022	13/06/2022	13/06/2022
A-T-055w	17/06/2022	17/06/2022	17/06/2022	17/06/2022	17/06/2022	17/06/2022
Titration w	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022	14/06/2022

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

APPENDIX IV
GEOTECHNICAL LABORATORY CERTIFICATES



LABORATORY REPORT



4043

Contract Number: PSL22/3256

Report Date: 27 May 2022
Client's Reference: 10 1938
Client Name: Clancy Consulting
Dunham Court
2 Dunham Road
Altrincham
Cheshire
WA144NX

For the attention of: Sean Pilling

Contract Title: HMG Paints
Date Received: 6/5/2022
Date Commenced: 6/5/2022
Date Completed: 27/05/2022

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

A Watkins
(Director)

R Berriman
(Quality Manager)

S Royle
(Laboratory Manager)

L Knight
(Assistant Laboratory Manager)

S Eyre
(Senior Technician)

M Fennell
(Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rberriman@prosoils.co.uk
awatkins@prosoils.co.uk

Page 1 of

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

[illegible]

4043

PSL
Professional Soils Laboratory

HMG paints

Contract No:

PSL22/3256

Client Ref:

10 1938

PARTICLE SIZE DISTRIBUTION TEST

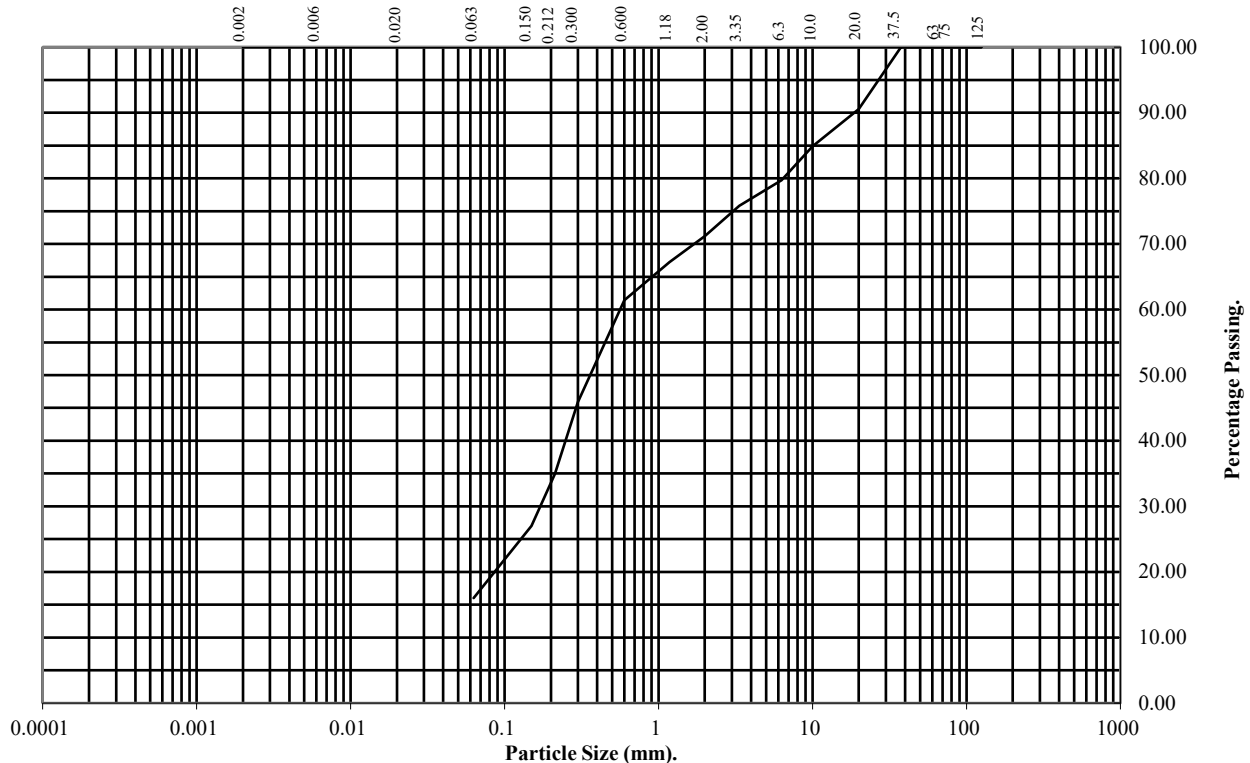
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH1 Top Depth (m): 0.50

Sample Number: Base Depth(m): 1.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	91
10	85
6.3	80
3.35	76
2	71
1.18	67
0.6	61
0.3	46
0.212	35
0.15	27
0.063	16

Soil Fraction	Total Percentage
Cobbles	0
Gravel	29
Sand	55
Silt/Clay	16

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

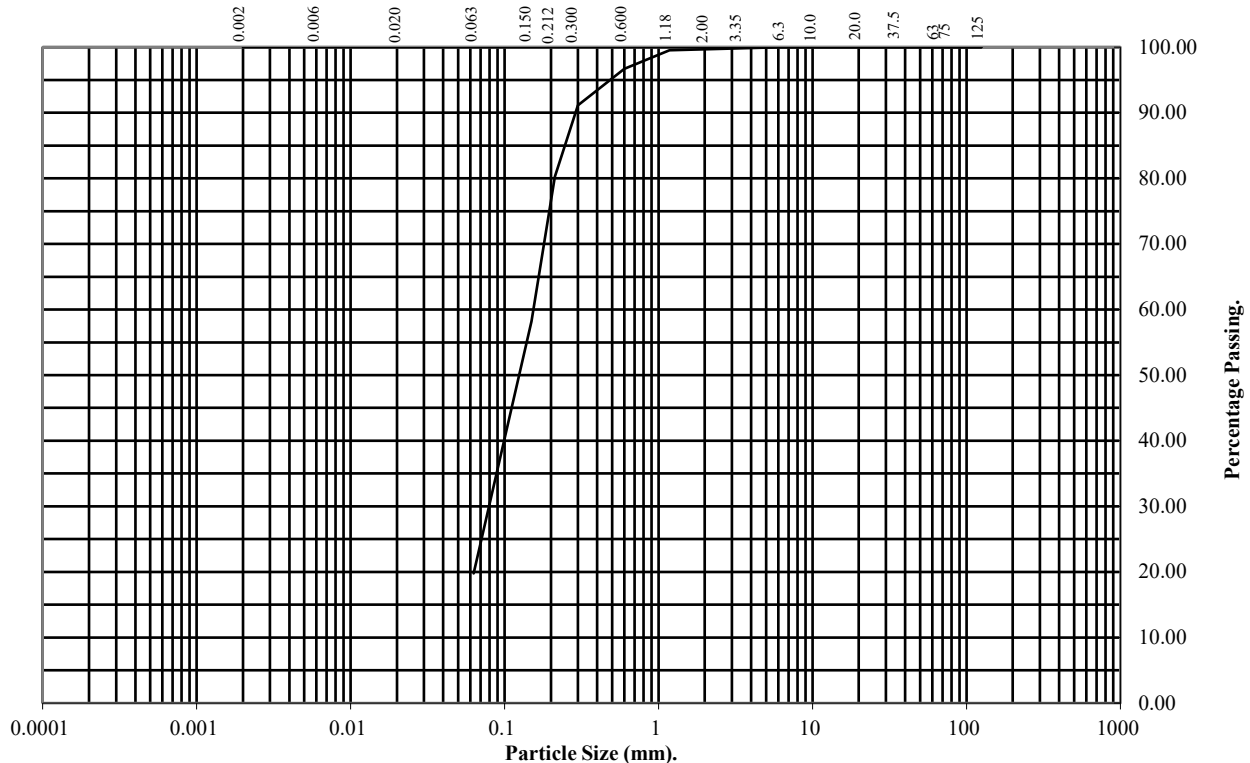
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH1 Top Depth (m): 4.00

Sample Number: Base Depth(m): 4.45

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	97
0.3	91
0.212	80
0.15	58
0.063	20

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	80
Silt/Clay	20

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

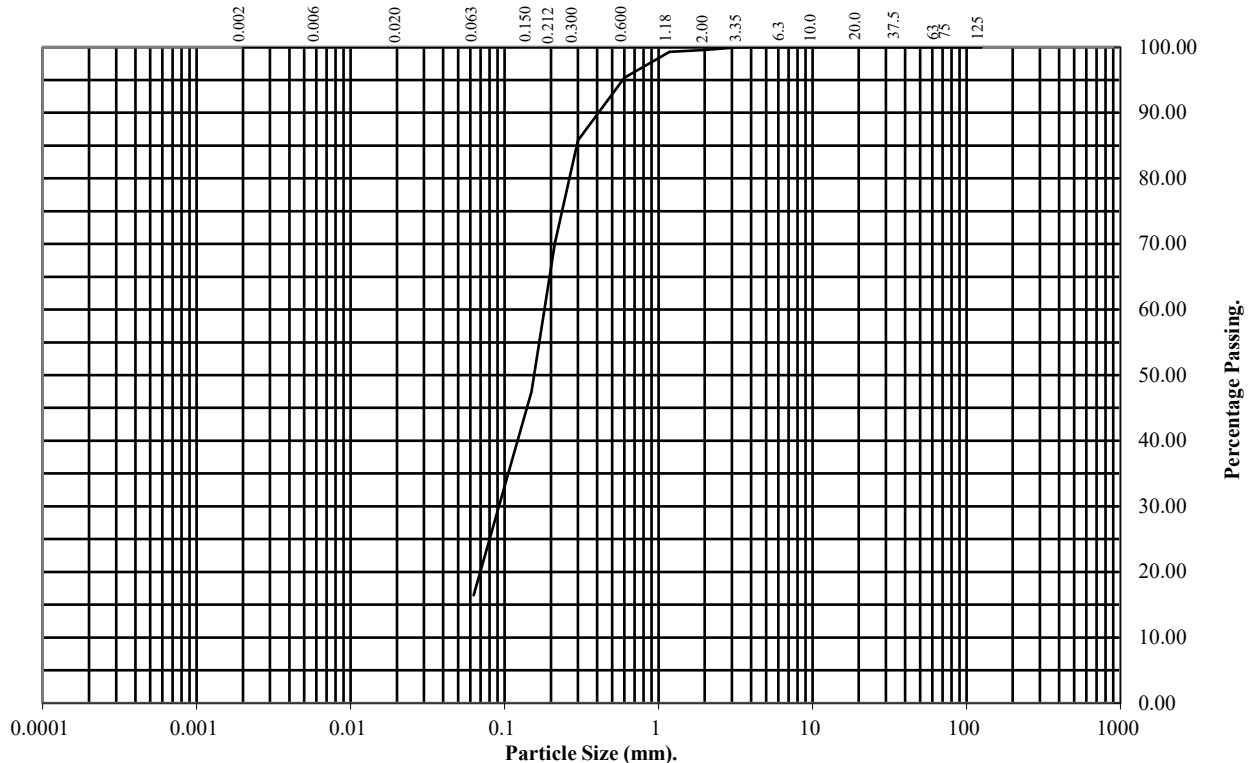
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH1 Top Depth (m): 5.00

Sample Number: Base Depth(m): 5.45

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	99
0.6	95
0.3	86
0.212	70
0.15	47
0.063	16

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	84
Silt/Clay	16

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

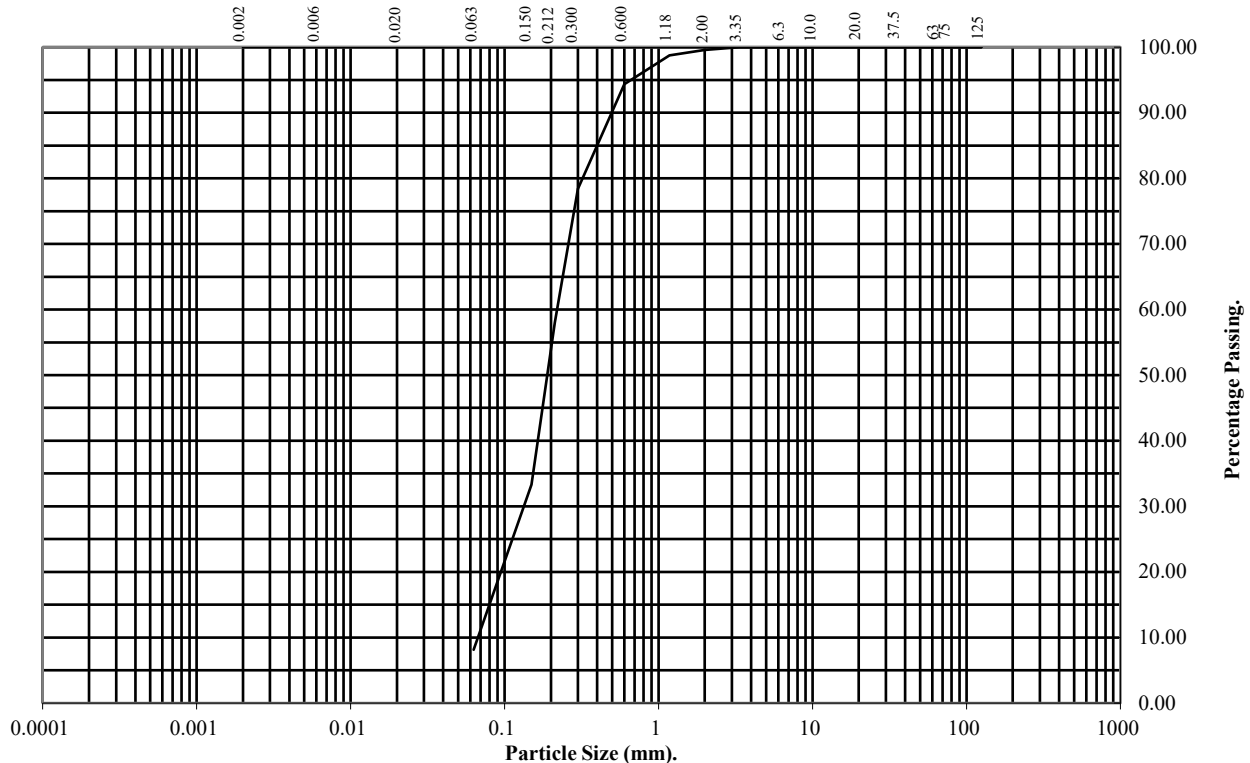
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH1 Top Depth (m): 10.00

Sample Number: Base Depth(m): 10.45

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	99
0.6	94
0.3	78
0.212	58
0.15	33
0.063	8

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	92
Silt/Clay	8

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

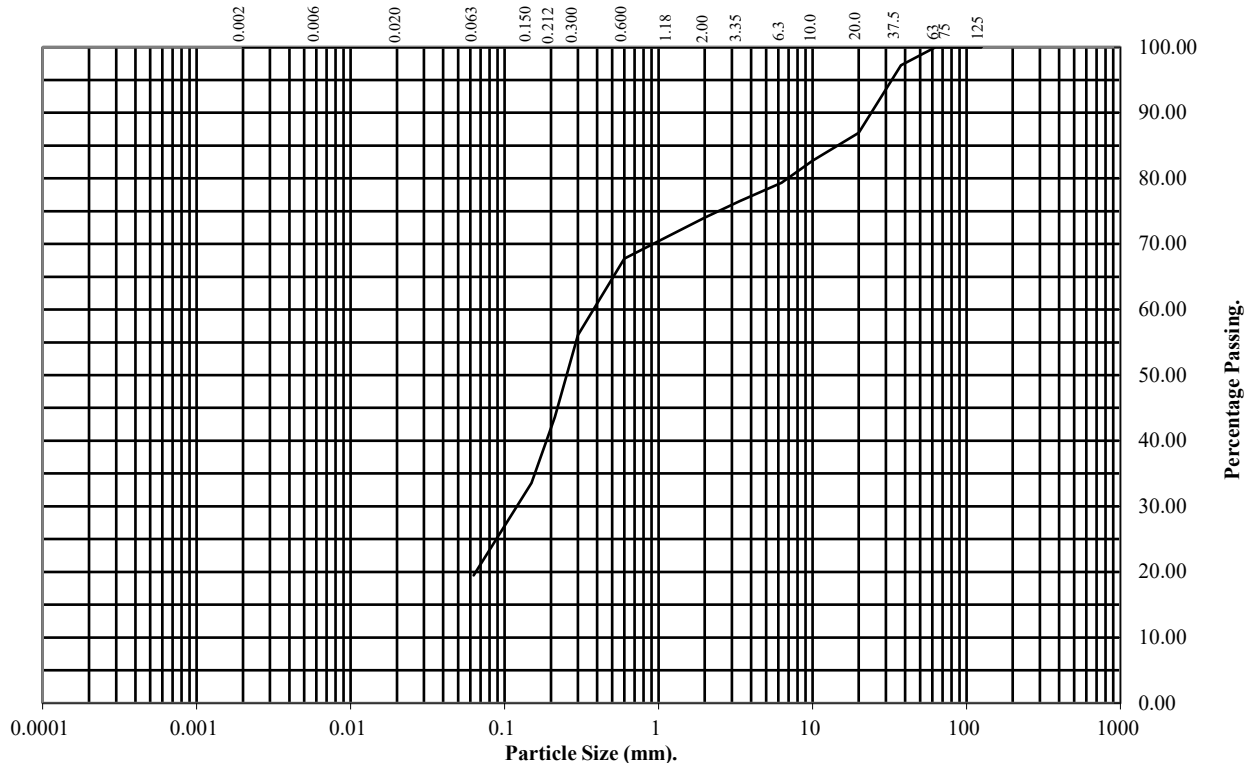
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH2 Top Depth (m): 1.20

Sample Number: Base Depth(m): 1.65

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	97
20	87
10	83
6.3	79
3.35	76
2	74
1.18	71
0.6	68
0.3	56
0.212	44
0.15	34
0.063	19

Soil Fraction	Total Percentage
Cobbles	0
Gravel	26
Sand	55
Silt/Clay	19

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

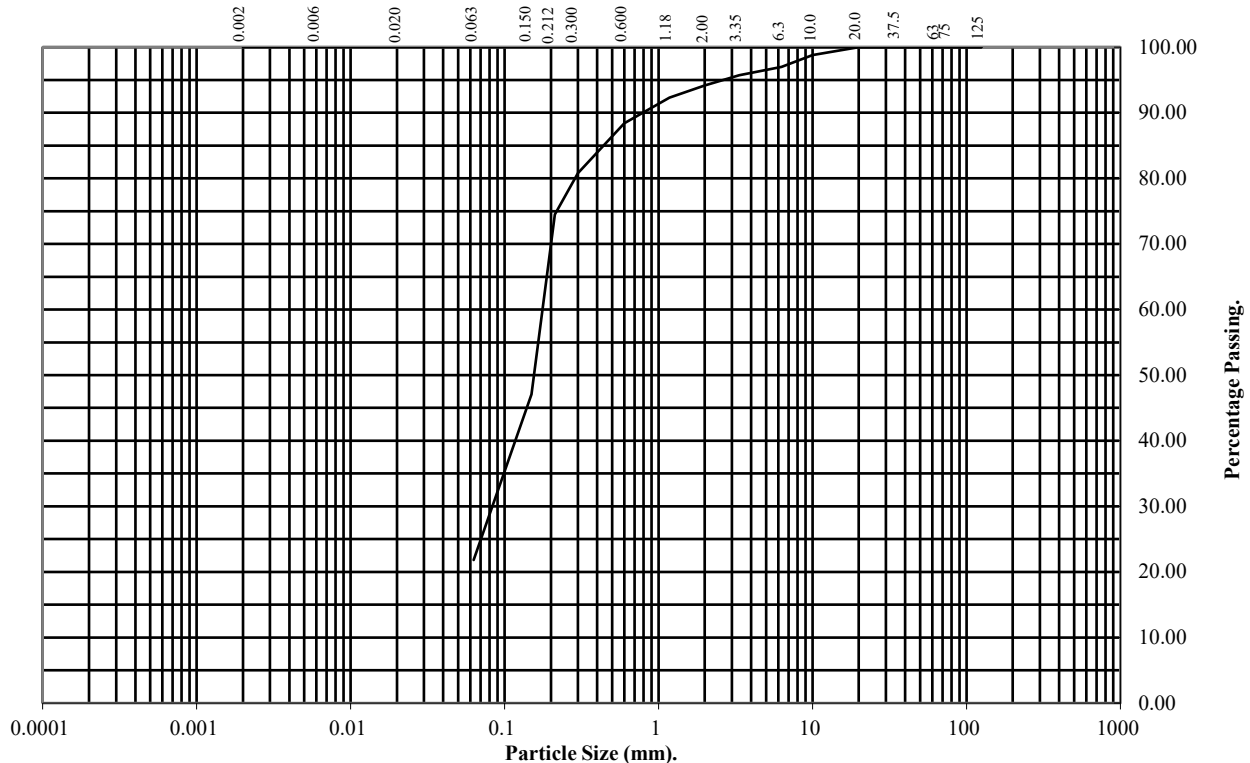
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH2 Top Depth (m): 2.60

Sample Number: Base Depth(m): 3.00

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	97
3.35	96
2	94
1.18	92
0.6	88
0.3	81
0.212	74
0.15	47
0.063	22

Soil Fraction	Total Percentage
Cobbles	0
Gravel	6
Sand	72
Silt/Clay	22

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

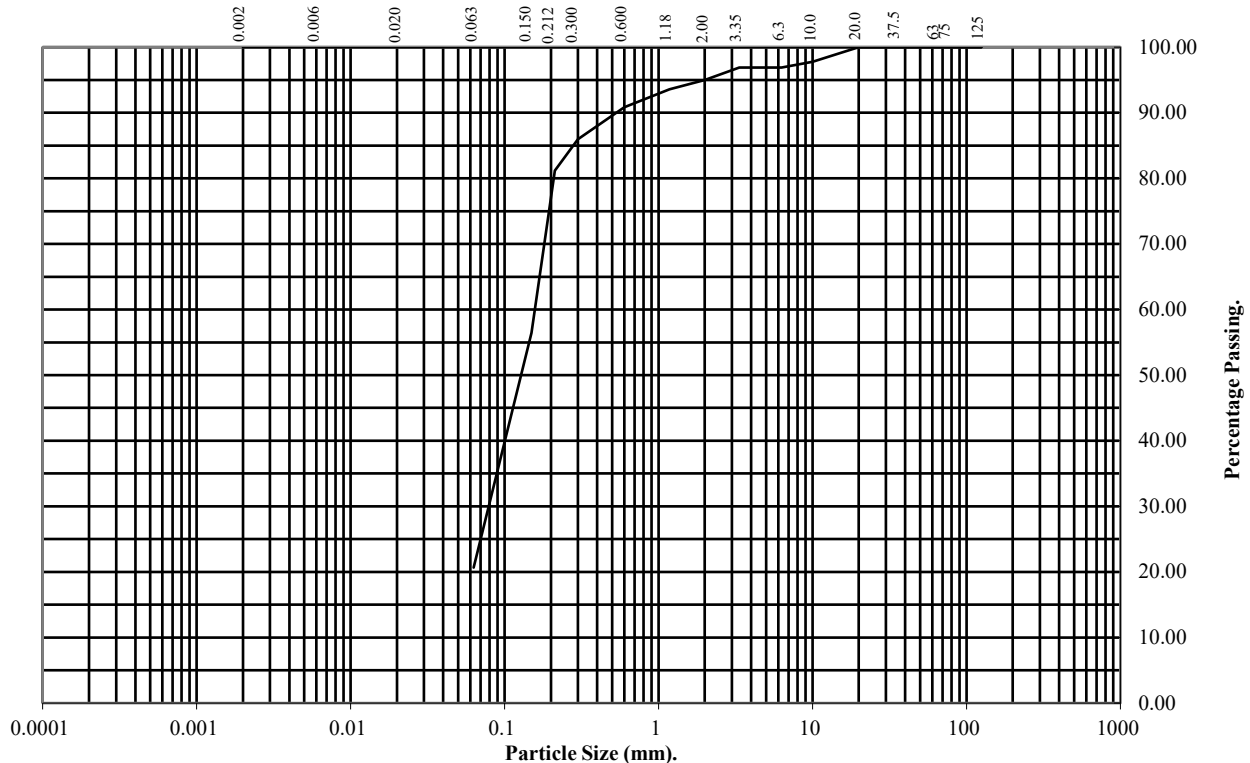
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH2 Top Depth (m): 2.60

Sample Number: Base Depth(m): 3.00

Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	98
6.3	97
3.35	97
2	95
1.18	94
0.6	91
0.3	86
0.212	81
0.15	56
0.063	21

Soil Fraction	Total Percentage
Cobbles	0
Gravel	5
Sand	74
Silt/Clay	21

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

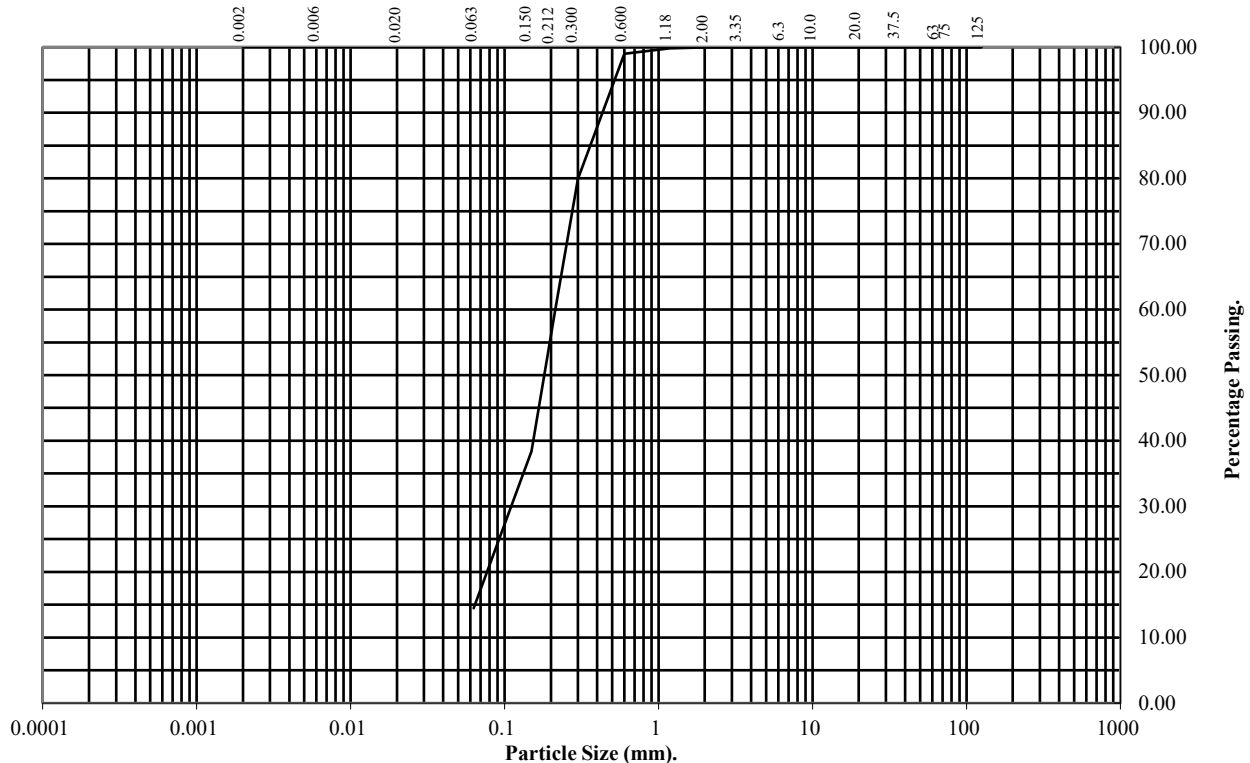
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: BH2 Top Depth (m): 6.00

Sample Number: Base Depth(m): 6.45

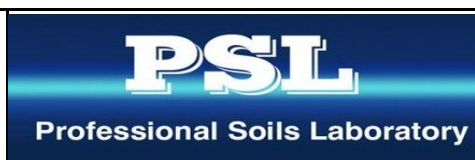
Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	100
3.35	100
2	100
1.18	100
0.6	99
0.3	80
0.212	60
0.15	38
0.063	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	86
Silt/Clay	14

Remarks:
See Summary of Soil Descriptions



HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

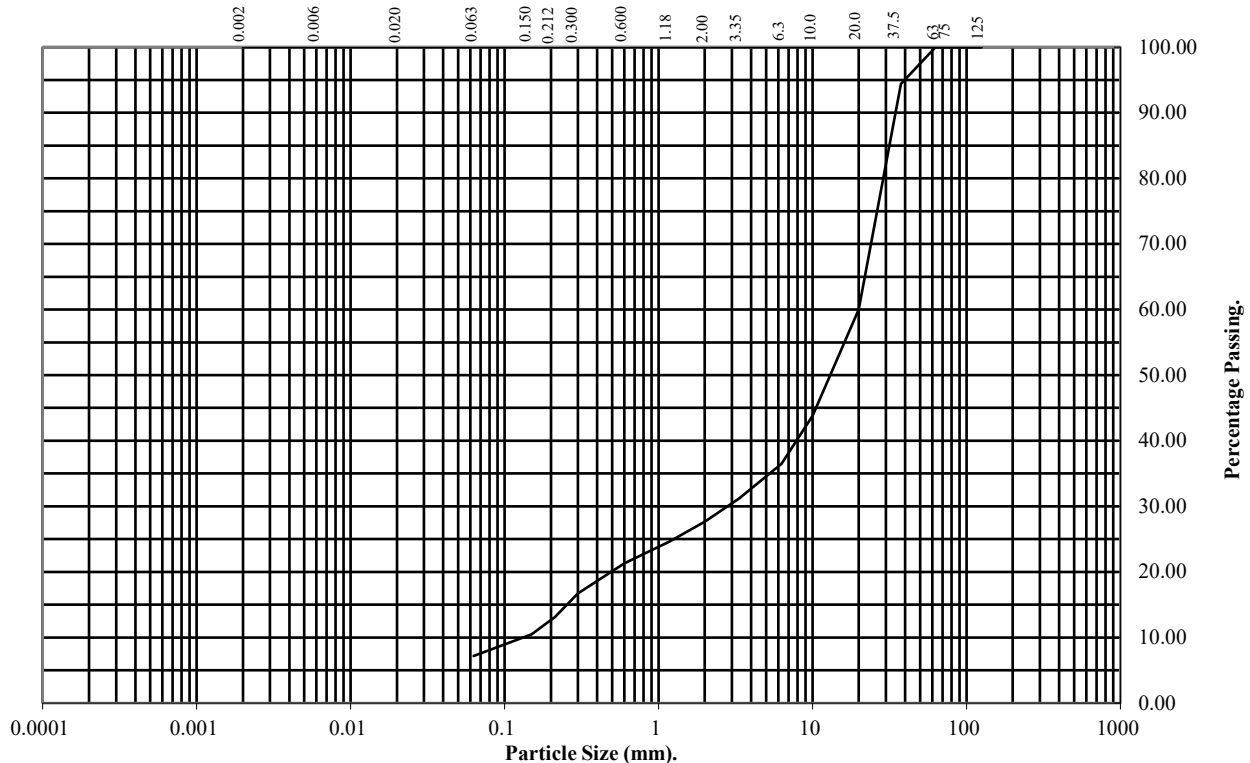
BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: TP1 Top Depth (m): 2.00

Sample Number: Base Depth(m): 2.70

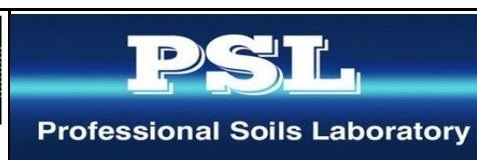
Sample Type: B



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	94
20	60
10	44
6.3	36
3.35	31
2	28
1.18	25
0.6	21
0.3	17
0.212	13
0.15	10
0.063	7

Soil Fraction	Total Percentage
Cobbles	0
Gravel	72
Sand	21
Silt/Clay	7

Remarks:
See Summary of Soil Descriptions



HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

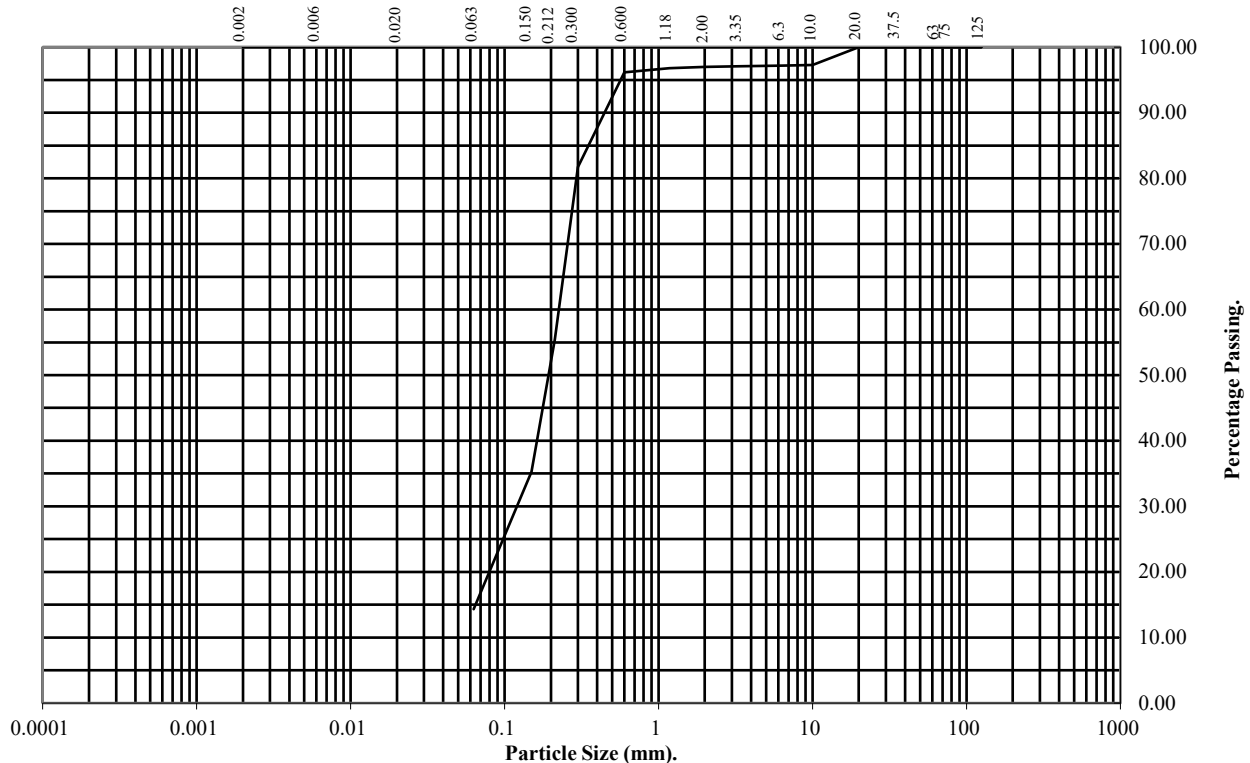
Hole Number: TP1

Top Depth (m): 3.00

Sample Number:

Base Depth(m):

Sample Type: D



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	97
6.3	97
3.35	97
2	97
1.18	97
0.6	96
0.3	82
0.212	55
0.15	35
0.063	14

Soil Fraction	Total Percentage
Cobbles	0
Gravel	3
Sand	83
Silt/Clay	14

Remarks:

See Summary of Soil Descriptions



PSL
Professional Soils Laboratory

HMG paints

Contract No:
PSL22/3256
Client Ref:
10 1938

APPENDIX V
GROUND GAS MONITORING RECORDS

MONITORING RESULTS

CLIENT: HMG Paints Ltd

JOB NO: 10/1938

SITE: HMG Paints Manchester

SHEET: 1 of 4

DATE: 13/05/2022

Ambient Concentration (% Volume)			CH4		0.0		CO2		0.0			
			O2		20.6							
Monitoring Point			Gas Concentration								Gas Flow Rate	Remarks
			Highest			Steady			Lowest	H2S		
Ref	GWL	Depth	CH4		CO2	CH4		CO2	O2			
	(m)BGL	(m) BGL	% LEL	% v/v	(%)	% LEL	% v/v	(%)	(%)	ppm	l/hr	
BH1 - #New#	2.93	13	0.00	0.00	0.00	0.00	0.00	0.00	18.2	0.00	0.10	
BH2 - #New#	2.80	14.5	0.00	0.00	0.00	0.00	0.00	0.00	18.5	0.00	0.10	
WS2 - #New#	Dry	2	0.00	0.00	1.60	0.00	0.00	1.20	17.8	0.00	0.20	
WS5 - #New#	Dry	2	0.00	0.00	0.00	0.00	0.00	0.00	17.1	0.00	0.10	
WS6 - #New#	Dry	2.5	0.00	0.00	3.00	0.00	0.00	2.50	17.20	0.00	0.10	
WS7 - #New#	Dry	1.5	0.00	0.00	2.40	0.00	0.00	2.30	16.60	0.00	0.10	

Barometric Pressure (mb):	1013	Monitoring Equipment:	GFM436
Barometric Trend:	Rising	Date Of Last Calibration:	09/11/2021
Weather:	Sunny	Operator:	SP
Ground Condition:	Dry		

KEY	Remarks
ND - None Detected NR - Not Recorded POS - Positive Flow NEG - Negative Flow	

Checked:	Approved:
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MONITORING RESULTS

CLIENT: HMG Paints Ltd

JOB NO: 10/1938

SITE: HMG Paints Manchester

SHEET: 2 of 4

DATE: 18/05/2022

Ambient Concentration (% Volume)			CH4		0.0		CO2		0.0			
			O2		17.5							
Monitoring Point			Gas Concentration								Gas Flow Rate	Remarks
			Highest		Steady		Lowest	H2S				
Ref	GWL	Depth	CH4		CO2	CH4			CO2	O2		
	(m)BGL	(m) BGL	% LEL	% v/v	(%)	% LEL	% v/v	(%)	(%)	ppm	l/hr	
BH1 - #New#	2.95	13	0.00	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.10	-
BH2 - #New#	2.77	14.5	0.00	0.00	0.00	0.00	0.00	0.00	17.80	0.00	0.10	-
WS2 - #New#	Dry	2	0.00	0.00	0.00	0.00	0.00	0.00	17.90	0.00	0.10	-
WS5 - #New#	Dry	2	0.00	0.00	0.00	0.00	0.00	0.00	18.20	0.00	0.10	-
WS6 - #New#	Dry	2.5	0.00	0.00	0.00	0.00	0.00	0.00	18.70	0.00	0.10	-
WS7 - #New#	Dry	1.5	0.00	0.00	1.50	0.00	0.00	1.20	15.80	0.00	0.10	-

Barometric Pressure (mb):	1000	Monitoring Equipment:	GFM436
Barometric Trend:	Rising	Date Of Last Calibration:	09/11/2021
Weather:	Overcast with sunny spell	Operator:	TB
Ground Condition:	Dry		

KEY	Remarks
ND - None Detected NR - Not Recorded POS - Positive Flow NEG - Negative Flow	-

Checked: TB	Approved:
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MONITORING RESULTS

CLIENT: HMG Paints Ltd

JOB NO: 10/1938

SITE: HMG Paints Manchester

SHEET: 3 of 4

DATE: 25/05/2022

Ambient Concentration (% Volume)			CH4		0.0		CO2		0.1			
			O2		18.9							
Monitoring Point			Gas Concentration								Gas Flow Rate	Remarks
			Highest			Steady			Lowest	H2S		
Ref	GWL	Depth	CH4		CO2	CH4		CO2	O2			
	(m)BGL	(m) BGL	% LEL	% v/v	(%)	% LEL	% v/v	(%)	(%)	ppm	l/hr	
BH1 - #New#	2.83	13	0.00	0.00	0.00	0.00	0.00	0.00	21.30	0.00	0.10	
BH2 - #New#	2.81	14.5	0.00	0.00	0.00	0.00	0.00	0.00	17.50	0.00	0.10	
WS2 - #New#	Dry	2	0.00	0.00	0.00	0.00	0.00	0.00	18.10	0.00	0.10	
WS5 - #New#	Dry	2	0.00	0.00	0.00	0.00	0.00	0.00	18.10	0.00	0.10	
WS6 - #New#	Dry	2.5	0.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.10	
WS7 - #New#	Dry	1.5	0.00	0.00	0.70	0.00	0.00	0.40	17.60	0.00	0.10	

Barometric Pressure (mb): 1001	Monitoring Equipment: GFM436
Barometric Trend: Falling	Date Of Last Calibration: 09/11/2021
Weather: Raining	Operator: TB
Ground Condition: Wet	

KEY	Remarks
ND - None Detected NR - Not Recorded POS - Positive Flow NEG - Negative Flow	

Checked:	Approved:
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MONITORING RESULTS

CLIENT: HMG Paints Ltd

JOB NO: 10/1938

SITE: HMG Paints Manchester

SHEET: 4 of 4

DATE: 07/06/2022

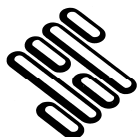
Ambient Concentration (% Volume)			CH4		0.0		CO2		0.0			
			O2		20.4							
Monitoring Point			Gas Concentration								Gas Flow Rate	Remarks
			Highest			Steady			Lowest	H2S		
Ref	GWL	Depth	CH4		CO2	CH4		CO2	O2			
	(m)BGL	(m) BGL	% LEL	% v/v	(%)	% LEL	% v/v	(%)	(%)	ppm	l/hr	
BH1 - #New#	2.95	13	0.00	0.00	9.20	0.00	0.00	6.30	5.70	0	0.10	
BH2 - #New#	2.77	14.5	0.00	0.00	0.90	0.00	0.00	0.00	20.30	0	0.00	
WS2 - #New#	Dry	2	0.00	0.00	2.60	0.00	0.00	2.50	17.50	0	0.10	
WS5 - #New#	Dry	2	0.00	0.00	3.00	0.00	0.00	3.00	17.20	0	0.00	
WS6 - #New#	Dry	2.5	0.00	0.00	2.40	0.00	0.00	2.40	16.80	0	0.00	
WS7 - #New#	Dry	1.5	0.00	0.00	2.50	0.00	0.00	2.50	16.60	0	0.00	

Barometric Pressure (mb):	1005	Monitoring Equipment:	GFM436
Barometric Trend:	Falling	Date Of Last Calibration:	09/11/2021
Weather:	Overcast	Operator:	SP
Ground Condition:	Dry		

KEY	Remarks
ND - None Detected NR - Not Recorded POS - Positive Flow NEG - Negative Flow	-

Checked:	Approved:
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APPENDIX VI
CBR TEST RESULTS



STRUCTURAL SOILS LTD

INSITU TESTING REPORT



1774

Report No. 785190.R01(00)

Date 27-April-2022 Contract HMG Paints

Client Clancy Consulting Limited
Address Dunham Court
2 Dunham Road
Altrincham
Cheshire
WA14 4NX

For the Attention of Phil Hill

Order received 14-April-2022
Testing Started 27-April-2022
Testing Completed 27-April-2022

Client Reference 10/1938
Client Order No. 30988
Instruction Type Written

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

UKAS Accredited Tests

* 4 no. Plate Load Test in accordance with BS1377:Part 9:1990, Clause 4.1

The results represent the ground conditions at the specified locations and depths at the time of testing.

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of.
Test were undertaken on samples 'as received' unless otherwise stated.
Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

Structural Soils Ltd, The Potteries, Pottery Street, Castleford, WF10 1NJ Tel.01977552255. e-mail matthew.doran@soils.co.uk

TESTING VERIFICATION CERTIFICATE



1774

The test results included in this report are certified as:-

ISSUE STATUS: **FINAL**

In accordance with the Structural Soils Ltd Laboratory Quality Management System, results sheets and summaries of results issued by the laboratory are checked by an approved signatory. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **27/04/2022 17:17:52**.

Testing reported after this date is not covered by this Verification Certificate.

Approved Signatory
Matthew Doran (Site Testing Manager (North))

(Head Office)
Bristol Laboratory
Unit 1A, Princess Street
Bedminster
Bristol
BS3 4AG

Castleford Laboratory
The Potteries, Pottery Street
Castleford
West Yorkshire
WF10 1NJ

Hemel Laboratory
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

Tonbridge Laboratory
Anerley Court, Half Moon Lane
Hildenborough
Tonbridge
TN11 9HU



**STRUCTURAL
SOILS LTD**

Contract:

HMG Paints

Job No:

785190



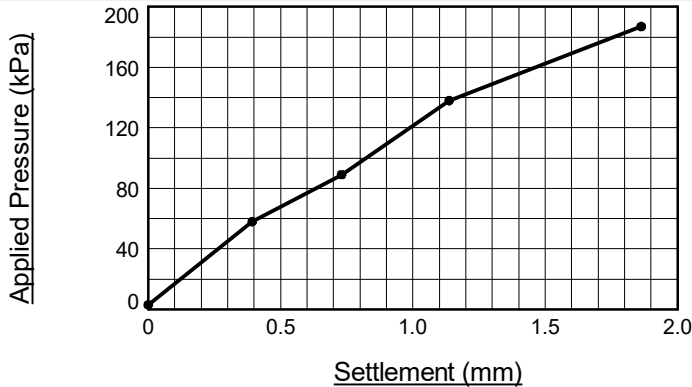
PLATE LOADING TEST - INCREMENTAL

BS1377:Part 9:1990, Clause 4.1

Position ID: **PLTCBR01**

Depth (m) : **0.20**

Date of Test : **27/04/22**



Applied Pressure (kPa)	Average Settlement (mm)
3	0.000
58	0.393
89	0.730
138	1.137
187	1.863

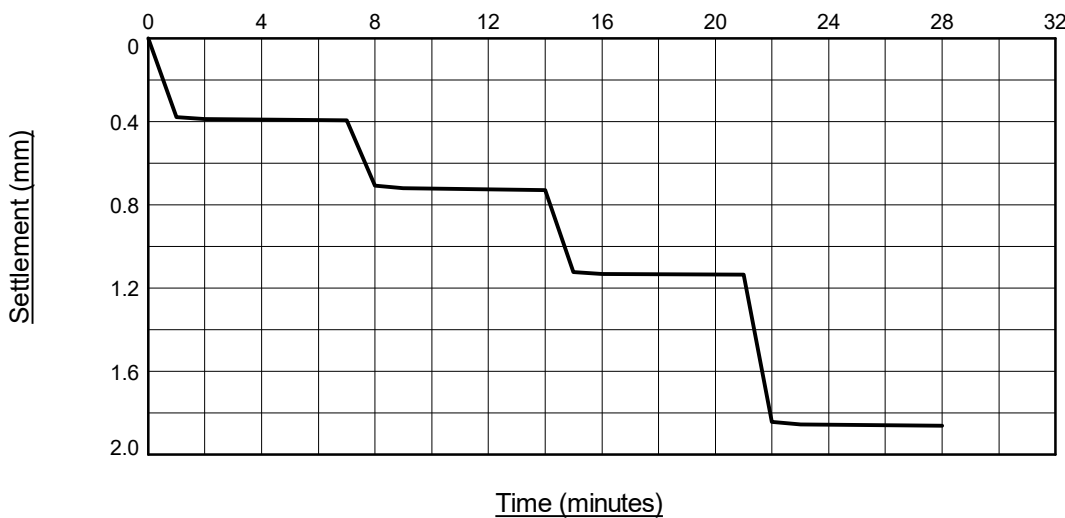


Plate Diameter (mm): **455**
Maximum Applied Pressure (kPa): **187**

Reaction Load : **Tracked Excavator**
Maximum Applied Deformation (mm) : **1.863**

Modulus of Subgrade Reaction at 1.25mm

Applied Pressure: **146** kPa
 k_{455} : **116800** kN/m²/m

Conversion to k_{762} : **$k_{455} \times 0.6288$**
 k_{762} : **73444** kN/m²/m

Approximate Equivalent CBR Value (%): **17**

Calculations derived from section 7.14 of Department of Transport, Interim Advice Note 73/06 (Draft HD25) February 2009 Design Guidance for Road Pavement Foundations

Additional Information

Environmental Conditions at Time of Test: **Sunny**
Start Temperature: **12°C**
End Temperature: **12°C**
Distance Between Plate and Wall of Pit (m): **0.3**



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By

MATTHEW DORAN

Date

27/04/22

Contract

HMG Paints

Contract Ref:

785190

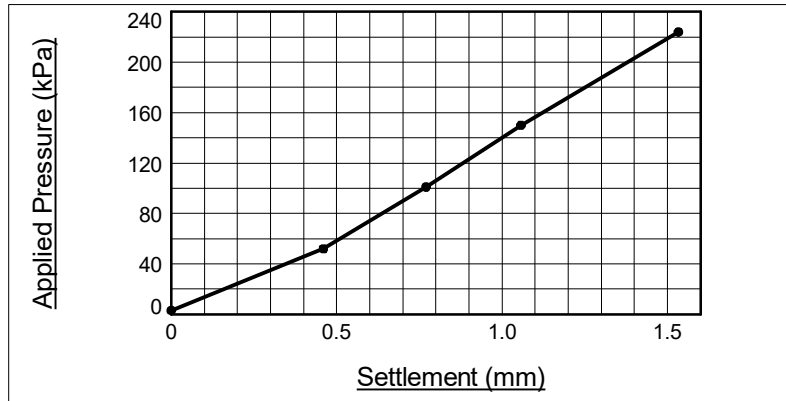
PLATE LOADING TEST - INCREMENTAL

BS1377:Part 9:1990, Clause 4.1

Position ID: **PLTCBR02**

Depth (m) : **0.20**

Date of Test : **27/04/22**



Applied Pressure (kPa)	Average Settlement (mm)
3	0.000
52	0.460
101	0.770
150	1.057
224	1.533

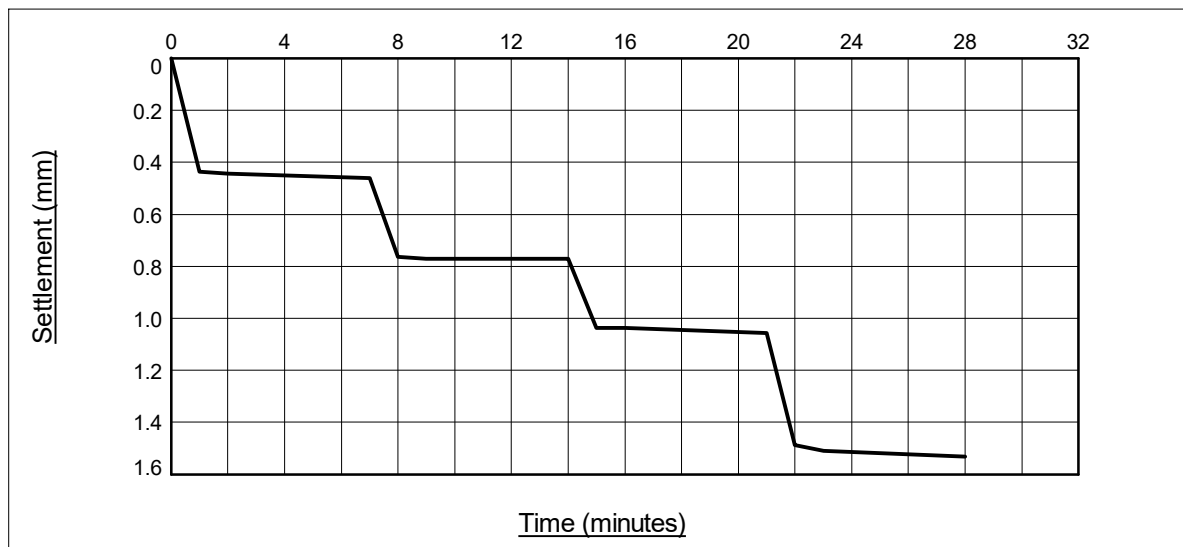
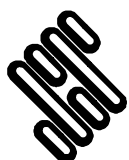


Plate Diameter (mm):	455	Reaction Load :	Tracked Excavator
Maximum Applied Pressure (kPa):	224	Maximum Applied Deformation (mm) :	1.533

Modulus of Subgrade Reaction at 1.25mm			
Applied Pressure:	180	kPa	Conversion to k_{762} : $k_{455} \times 0.6288$
k_{455} :	144000	kN/m ² /m	k_{762} : 90547 kN/m ² /m
Approximate Equivalent CBR Value (%): 24			
Calculations derived from section 7.14 of Department of Transport, Interim Advice Note 73/06 (Draft HD25) February 2009 Design Guidance for Road Pavement Foundations			

Additional Information	
Environmental Conditions at Time of Test: Sunny	
Start Temperature: 12°C	
End Temperature: 12°C	
Distance Between Plate and Wall of Pit (m): 0.3	



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
		27/04/22
Contract	HMG Paints	Contract Ref: 785190

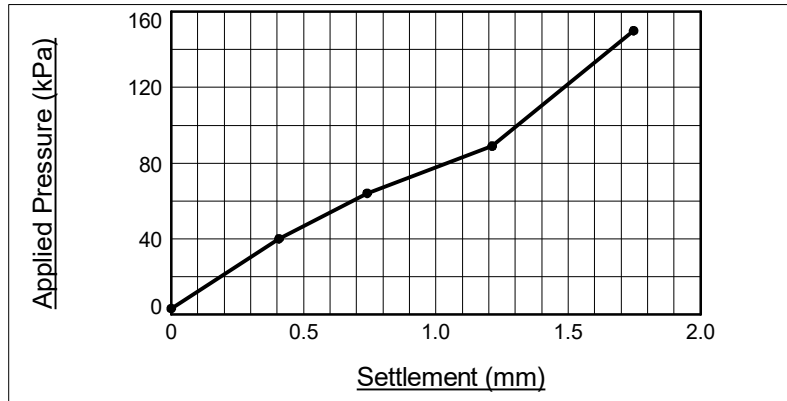
PLATE LOADING TEST - INCREMENTAL

BS1377:Part 9:1990, Clause 4.1

Position ID: **PLTCBR03**

Depth (m) : **0.30**

Date of Test : **27/04/22**



Applied Pressure (kPa)	Average Settlement (mm)
3	0.000
40	0.407
64	0.740
89	1.213
150	1.747

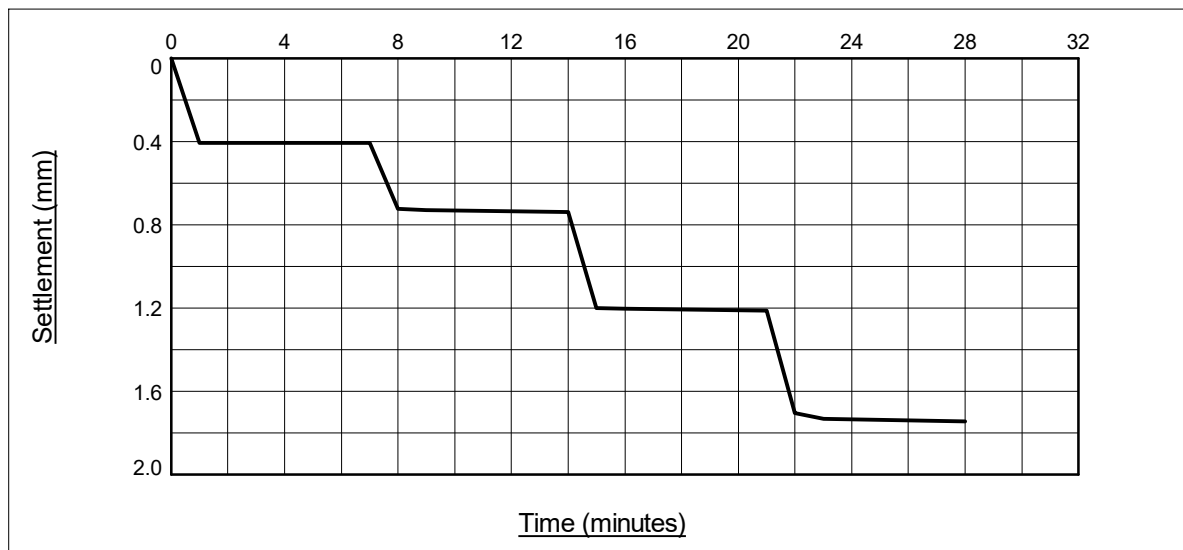
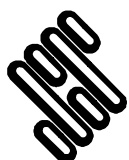


Plate Diameter (mm):	455	Reaction Load :	Tracked Excavator
Maximum Applied Pressure (kPa):	150	Maximum Applied Deformation (mm) :	1.747

Modulus of Subgrade Reaction at 1.25mm			
Applied Pressure:	93	kPa	Conversion to k_{762} : $k_{455} \times 0.6288$
k_{455} :	74400	kN/m ² /m	k_{762} : 46783 kN/m ² /m
Approximate Equivalent CBR Value (%): 7.6			
Calculations derived from section 7.14 of Department of Transport, Interim Advice Note 73/06 (Draft HD25) February 2009 Design Guidance for Road Pavement Foundations			

Additional Information	
Environmental Conditions at Time of Test: Sunny	
Start Temperature: 10°C	
End Temperature: 11°C	
Distance Between Plate and Wall of Pit (m): 0.1	



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
		27/04/22
Contract	HMG Paints	Contract Ref: 785190

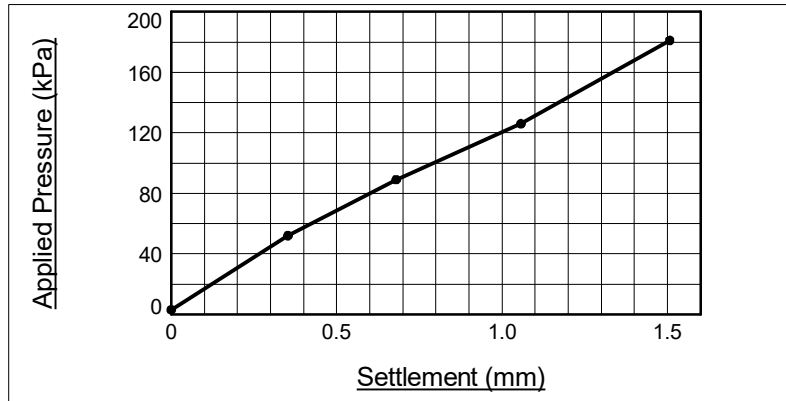
PLATE LOADING TEST - INCREMENTAL

BS1377:Part 9:1990, Clause 4.1

Position ID: **PLTCBR04**

Depth (m) : **0.20**

Date of Test : **27/04/22**



Applied Pressure (kPa)	Average Settlement (mm)
3	0.000
52	0.353
89	0.680
126	1.057
181	1.507

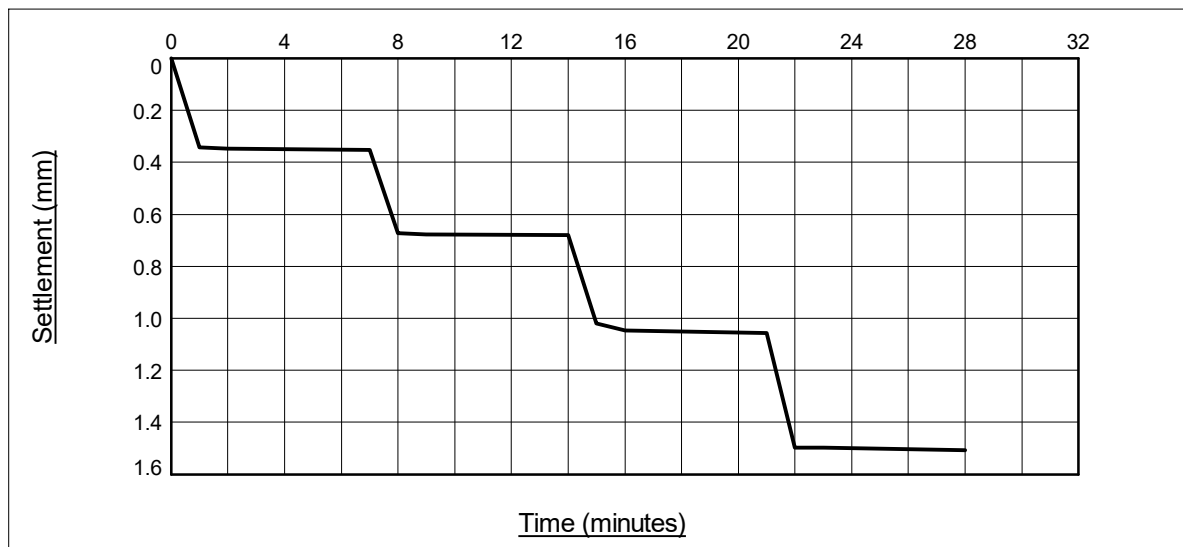
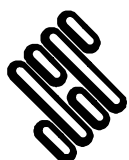


Plate Diameter (mm):	455	Reaction Load :	Tracked Excavator
Maximum Applied Pressure (kPa):	181	Maximum Applied Deformation (mm) :	1.507

Modulus of Subgrade Reaction at 1.25mm			
Applied Pressure:	150	kPa	Conversion to k_{762} :
k_{455} :	120000	kN/m ² /m	$k_{455} \times 0.6288$
			75456 kN/m ² /m
Approximate Equivalent CBR Value (%): 17			
Calculations derived from section 7.14 of Department of Transport, Interim Advice Note 73/06 (Draft HD25) February 2009 Design Guidance for Road Pavement Foundations			

Additional Information	
Environmental Conditions at Time of Test: Sunny	
Start Temperature: 10°C	
End Temperature: 10°C	
Distance Between Plate and Wall of Pit (m): 0.3	



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

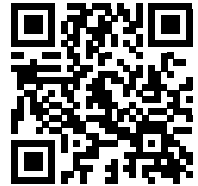
Compiled By		Date
		27/04/22
Contract	HMG Paints	Contract Ref: 785190

APPENDIX VII
WASTE SOIL CLASSIFICATION

Waste Classification Report

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

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



55M7S-2EYAM-1QYW6

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

Job name

10/1938 HMG Paints

Description/Comments

Project

Site

Classified by

Name:

Robert Philip

Date:

08 Jul 2022 08:06 GMT

Telephone:

Company:

Clancy Consulting Limited

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

HazWasteOnline™ Certification:

-

Course

Hazardous Waste Classification

Date

-

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH1	0.60	Non Hazardous	HP 8	2
2	BH2	0.60	Hazardous		5
3	WS2	0.50	Non Hazardous		8
4	WS4	0.50	Non Hazardous		11
5	WS6	0.50	Non Hazardous	HP 3(i), HP 7, HP 11	14
6	WS7	0.60	Non Hazardous		17
7	WS9	0.50	Hazardous		20
8	BH1[2]	1.90	Non Hazardous		23
9	BH2[2]	1.80	Non Hazardous		26
10	WS2[2]	1.80	Non Hazardous		28
11	BH1[3]	2.90	Non Hazardous		30
12	BH2[3]	2.70	Non Hazardous		32
13	WS6[2]	2.60	Non Hazardous		34

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Robert Philip

Created date: 08 Jul 2022 08:06 GMT

Appendices

	Page
Appendix A: Classifier defined and non GB MCL determinands	36
Appendix B: Rationale for selection of metal species	37
Appendix C: Version	37

Classification of sample: BH1

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

Sample details

Sample name:	LoW Code:
BH1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m	

Hazard properties

None identified

Determinands

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

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				16	mg/kg	1.32	21.125	mg/kg	0.00211 %		
	033-003-00-0	215-481-4	1327-53-3										
2		beryllium { beryllium oxide }				1.4	mg/kg	2.775	3.885	mg/kg	0.000389 %		
	004-003-00-8	215-133-1	1304-56-9										
3		boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2										
4		cadmium { cadmium oxide }				1.5	mg/kg	1.142	1.713	mg/kg	0.000171 %		
	048-002-00-0	215-146-2	1306-19-0										
5		chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8												
6		copper { dicopper oxide; copper (I) oxide }				57	mg/kg	1.126	64.176	mg/kg	0.00642 %		
	029-002-00-X	215-270-7	1317-39-1										
7		lead { lead chromate }			1	148	mg/kg	1.56	230.853	mg/kg	0.0148 %		
	082-004-00-2	231-846-0	7758-97-6										
8		mercury { mercury dichloride }				0.77	mg/kg	1.353	1.042	mg/kg	0.000104 %		
	080-010-00-X	231-299-8	7487-94-7										
9		nickel { nickel chromate }				22	mg/kg	2.976	65.478	mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7										
10		selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5										
11		zinc { zinc chromate }				74	mg/kg	2.774	205.287	mg/kg	0.0205 %		
	024-007-00-3	236-878-9	13530-65-9										
12		TPH (C6 to C40) petroleum group				46	mg/kg		46	mg/kg	0.0046 %		
			TPH										
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4										
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2										
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3										
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4										
17		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [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							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
18	pH		PH		9.74 pH		9.74 pH	9.74 pH		
19	naphthalene				0.17 mg/kg		0.17 mg/kg	0.000017 %		
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				0.03 mg/kg		0.03 mg/kg	0.000003 %		
		205-917-1	208-96-8							
21	acenaphthene				0.09 mg/kg		0.09 mg/kg	0.000009 %		
		201-469-6	83-32-9							
22	fluorene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
		201-695-5	86-73-7							
23	phenanthrene				1.01 mg/kg		1.01 mg/kg	0.000101 %		
		201-581-5	85-01-8							
24	anthracene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
		204-371-1	120-12-7							
25	fluoranthene				1.14 mg/kg		1.14 mg/kg	0.000114 %		
		205-912-4	206-44-0							
26	pyrene				1.24 mg/kg		1.24 mg/kg	0.000124 %		
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.6 mg/kg		0.6 mg/kg	0.00006 %		
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.66 mg/kg		0.66 mg/kg	0.000066 %		
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				0.75 mg/kg		0.75 mg/kg	0.000075 %		
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.3 mg/kg		0.3 mg/kg	0.00003 %		
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.87 mg/kg		0.87 mg/kg	0.000087 %		
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.51 mg/kg		0.51 mg/kg	0.000051 %		
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
		205-883-8	191-24-2							
35	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
36	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
37	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
38	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
39	vinyl chloride; chloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.0573 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0046%)

Classification of sample: BH2

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

Sample details

Sample name:	LoW Code:
BH2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.60 m	

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.: 12.1 pH)

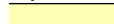
Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg	0.000396 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %			<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %			<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	61 mg/kg	1.56	95.149 mg/kg	0.0061 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				2.06 mg/kg	1.353	2.788 mg/kg	0.000279 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				12 mg/kg	2.976	35.715 mg/kg	0.00357 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc chromate }				57 mg/kg	2.774	158.126 mg/kg	0.0158 %			
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group				145 mg/kg		145 mg/kg	0.0145 %			
			TPH								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
17	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]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
18	pH		PH		12.1 pH		12.1 pH	12.1 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		0.15 mg/kg		0.15 mg/kg	0.000015 %			
20	acenaphthylene 205-917-1	208-96-8			0.03 mg/kg		0.03 mg/kg	0.000003 %			
21	acenaphthene 201-469-6	83-32-9			0.32 mg/kg		0.32 mg/kg	0.000032 %			
22	fluorene 201-695-5	86-73-7			0.19 mg/kg		0.19 mg/kg	0.000019 %			
23	phenanthrene 201-581-5	85-01-8			2.32 mg/kg		2.32 mg/kg	0.000232 %			
24	anthracene 204-371-1	120-12-7			0.49 mg/kg		0.49 mg/kg	0.000049 %			
25	fluoranthene 205-912-4	206-44-0			2.83 mg/kg		2.83 mg/kg	0.000283 %			
26	pyrene 204-927-3	129-00-0			2.21 mg/kg		2.21 mg/kg	0.000221 %			
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1 mg/kg		1 mg/kg	0.0001 %			
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.94 mg/kg		0.94 mg/kg	0.000094 %			
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.94 mg/kg		0.94 mg/kg	0.000094 %			
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.37 mg/kg		0.37 mg/kg	0.000037 %			
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.04 mg/kg		1.04 mg/kg	0.000104 %			
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.67 mg/kg		0.67 mg/kg	0.000067 %			
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.13 mg/kg		0.13 mg/kg	0.000013 %			
34	benzo[ghi]perylene 205-883-8	191-24-2			0.59 mg/kg		0.59 mg/kg	0.000059 %			
35	1,1-dichloroethane and 1,2-dichloroethane (combined) 203-458-1, 200-863-5	107-06-2, 75-34-3			<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
36	tetrachloroethylene 602-028-00-4	204-825-9	127-18-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
37	carbon tetrachloride; tetrachloromethane 602-008-00-5	200-262-8	56-23-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
38	trichloroethylene; trichloroethene 602-027-00-9	201-167-4	79-01-6		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
39	vinyl chloride; chloroethylene 602-023-00-7	200-831-0	75-01-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
Total:									0.0449 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0145%)

Classification of sample: WS2

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

Sample details

Sample name:	LoW Code:
WS2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				7	mg/kg	1.32	9.242	mg/kg	0.000924 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1	mg/kg	2.775	2.775	mg/kg	0.000278 %		
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				1.7	mg/kg	1.142	1.942	mg/kg	0.000194 %		
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				46	mg/kg	1.126	51.791	mg/kg	0.00518 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	250	mg/kg	1.56	389.954	mg/kg	0.025 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.8	mg/kg	1.353	1.083	mg/kg	0.000108 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				17	mg/kg	2.976	50.597	mg/kg	0.00506 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				156	mg/kg	2.774	432.767	mg/kg	0.0433 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				15	mg/kg		15	mg/kg	0.0015 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [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							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
18	pH		PH		9.11 pH		9.11 pH	9.11 pH		
19	naphthalene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				0.03 mg/kg		0.03 mg/kg	0.000003 %		
		205-917-1	208-96-8							
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				0.02 mg/kg		0.02 mg/kg	0.000002 %		
		201-695-5	86-73-7							
23	phenanthrene				0.4 mg/kg		0.4 mg/kg	0.00004 %		
		201-581-5	85-01-8							
24	anthracene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
		204-371-1	120-12-7							
25	fluoranthene				0.44 mg/kg		0.44 mg/kg	0.000044 %		
		205-912-4	206-44-0							
26	pyrene				0.48 mg/kg		0.48 mg/kg	0.000048 %		
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.29 mg/kg		0.29 mg/kg	0.000029 %		
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.24 mg/kg		0.24 mg/kg	0.000024 %		
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				0.33 mg/kg		0.33 mg/kg	0.000033 %		
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.14 mg/kg		0.14 mg/kg	0.000014 %		
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.37 mg/kg		0.37 mg/kg	0.000037 %		
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.18 mg/kg		0.18 mg/kg	0.000018 %		
		205-883-8	191-24-2							
35	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
36	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
37	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
38	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
39	vinyl chloride; chloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.0827 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0015%)

Classification of sample: WS4

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

Sample details

Sample name:	LoW Code:
WS4	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				19 mg/kg	1.32	25.086 mg/kg	0.00251 %			
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				1.1 mg/kg	2.775	3.053 mg/kg	0.000305 %			
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				1.4 mg/kg	1.142	1.599 mg/kg	0.00016 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %			<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				49 mg/kg	1.126	55.169 mg/kg	0.00552 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	106 mg/kg	1.56	165.34 mg/kg	0.0106 %			
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				0.41 mg/kg	1.353	0.555 mg/kg	0.0000555 %			
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				24 mg/kg	2.976	71.43 mg/kg	0.00714 %			
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc chromate }				50 mg/kg	2.774	138.707 mg/kg	0.0139 %			
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group				628 mg/kg		628 mg/kg	0.0628 %			
			TPH								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [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								
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]								
18	pH		PH		8.47 pH		8.47 pH	8.47 pH			
19	naphthalene	601-052-00-2	202-049-5	91-20-3	0.95 mg/kg		0.95 mg/kg	0.000095 %			
20	acenaphthylene		205-917-1	208-96-8	0.29 mg/kg		0.29 mg/kg	0.000029 %			
21	acenaphthene		201-469-6	83-32-9	3.65 mg/kg		3.65 mg/kg	0.000365 %			
22	fluorene		201-695-5	86-73-7	2.49 mg/kg		2.49 mg/kg	0.000249 %			
23	phenanthrene		201-581-5	85-01-8	28.3 mg/kg		28.3 mg/kg	0.00283 %			
24	anthracene		204-371-1	120-12-7	7.28 mg/kg		7.28 mg/kg	0.000728 %			
25	fluoranthene		205-912-4	206-44-0	32 mg/kg		32 mg/kg	0.0032 %			
26	pyrene		204-927-3	129-00-0	29.4 mg/kg		29.4 mg/kg	0.00294 %			
27	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	14.9 mg/kg		14.9 mg/kg	0.00149 %			
28	chrysene	601-048-00-0	205-923-4	218-01-9	16 mg/kg		16 mg/kg	0.0016 %			
29	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	13.4 mg/kg		13.4 mg/kg	0.00134 %			
30	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	5.58 mg/kg		5.58 mg/kg	0.000558 %			
31	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	13.2 mg/kg		13.2 mg/kg	0.00132 %			
32	indeno[123-cd]pyrene		205-893-2	193-39-5	9.57 mg/kg		9.57 mg/kg	0.000957 %			
33	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	2.28 mg/kg		2.28 mg/kg	0.000228 %			
34	benzo[ghi]perylene		205-883-8	191-24-2	7.79 mg/kg		7.79 mg/kg	0.000779 %			
35	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
36	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
37	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
38	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
39	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
Total:									0.122 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0628%)

Classification of sample: WS6

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

Sample details

Sample name:	LoW Code:
WS6	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.8	mg/kg	1.142	0.914	mg/kg	0.0000914 %		
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				76	mg/kg	1.126	85.568	mg/kg	0.00856 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	193	mg/kg	1.56	301.044	mg/kg	0.0193 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				1.24	mg/kg	1.353	1.678	mg/kg	0.000168 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				11	mg/kg	2.976	32.739	mg/kg	0.00327 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				58	mg/kg	2.774	160.9	mg/kg	0.0161 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				15	mg/kg		15	mg/kg	0.0015 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [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							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
18	pH		PH		8.46 pH		8.46 pH	8.46 pH		
19	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				0.19 mg/kg		0.19 mg/kg	0.000019 %		
		201-581-5	85-01-8							
24	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				0.46 mg/kg		0.46 mg/kg	0.000046 %		
		205-912-4	206-44-0							
26	pyrene				0.49 mg/kg		0.49 mg/kg	0.000049 %		
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.34 mg/kg		0.34 mg/kg	0.000034 %		
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.4 mg/kg		0.4 mg/kg	0.00004 %		
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				0.43 mg/kg		0.43 mg/kg	0.000043 %		
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.16 mg/kg		0.16 mg/kg	0.000016 %		
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.41 mg/kg		0.41 mg/kg	0.000041 %		
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				0.06 mg/kg		0.06 mg/kg	0.000006 %		
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
		205-883-8	191-24-2							
35	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3							
36	tetrachloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
37	carbon tetrachloride; tetrachloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
38	trichloroethylene; trichloroethene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
39	vinyl chloride; chloroethylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
Total:								0.0519 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0015%)

Classification of sample: WS7

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

Sample details

Sample name:	LoW Code:
WS7	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.60 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				1 mg/kg	2.775	2.775 mg/kg	0.000278 %		
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				1.5 mg/kg	1.142	1.713 mg/kg	0.000171 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				53 mg/kg	1.126	59.672 mg/kg	0.00597 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	358 mg/kg	1.56	558.414 mg/kg	0.0358 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				22 mg/kg	2.976	65.478 mg/kg	0.00655 %		
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc chromate }				52 mg/kg	2.774	144.256 mg/kg	0.0144 %		
	024-007-00-3	236-878-9	13530-65-9							
12	TPH (C6 to C40) petroleum group				19 mg/kg		19 mg/kg	0.0019 %		
			TPH							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [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							
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]							
18	pH		PH		8.19 pH		8.19 pH	8.19 pH		
19	naphthalene	601-052-00-2	202-049-5	91-20-3	0.05 mg/kg		0.05 mg/kg	0.000005 %		
20	acenaphthylene		205-917-1	208-96-8	0.01 mg/kg		0.01 mg/kg	0.000001 %		
21	acenaphthene		201-469-6	83-32-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
22	fluorene		201-695-5	86-73-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
23	phenanthrene		201-581-5	85-01-8	0.22 mg/kg		0.22 mg/kg	0.000022 %		
24	anthracene		204-371-1	120-12-7	0.03 mg/kg		0.03 mg/kg	0.000003 %		
25	fluoranthene		205-912-4	206-44-0	0.26 mg/kg		0.26 mg/kg	0.000026 %		
26	pyrene		204-927-3	129-00-0	0.27 mg/kg		0.27 mg/kg	0.000027 %		
27	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.15 mg/kg		0.15 mg/kg	0.000015 %		
28	chrysene	601-048-00-0	205-923-4	218-01-9	0.15 mg/kg		0.15 mg/kg	0.000015 %		
29	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	0.17 mg/kg		0.17 mg/kg	0.000017 %		
30	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
31	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.19 mg/kg		0.19 mg/kg	0.000019 %		
32	indeno[123-cd]pyrene		205-893-2	193-39-5	0.1 mg/kg		0.1 mg/kg	0.00001 %		
33	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
34	benzo[ghi]perylene		205-883-8	191-24-2	0.08 mg/kg		0.08 mg/kg	0.000008 %		
35	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5		107-06-2, 75-34-3	<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
39	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
Total:								0.0678 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0019%)

Classification of sample: WS9

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

Sample details

Sample name:	LoW Code:
WS9	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.50 m	

Hazard properties

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

Force this Hazardous property to hazardous because Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.235%)

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.: 0.235%)

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.: 0.235%)

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg		0.00224 %		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				0.9 mg/kg	2.775	2.498 mg/kg		0.00025 %		
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg		<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				2.2 mg/kg	1.142	2.513 mg/kg		0.000251 %		
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg		<0.000227 %		<LOD
	024-017-00-8										

#	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									
6	copper { dicopper oxide; copper (I) oxide }				84	mg/kg	1.126	94.575	mg/kg	0.00946 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	343	mg/kg	1.56	535.017	mg/kg	0.0343 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				0.56	mg/kg	1.353	0.758	mg/kg	0.0000758 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				26	mg/kg	2.976	77.383	mg/kg	0.00774 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				162	mg/kg	2.774	449.412	mg/kg	0.0449 %		
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				2350	mg/kg		2350	mg/kg	0.235 %		
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
15	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
17	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18	pH				8.22	pH		8.22	pH	8.22 pH		
			PH									
19	naphthalene				1.57	mg/kg		1.57	mg/kg	0.000157 %		
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				0.51	mg/kg		0.51	mg/kg	0.000051 %		
		205-917-1	208-96-8									
21	acenaphthene				8.66	mg/kg		8.66	mg/kg	0.000866 %		
		201-469-6	83-32-9									
22	fluorene				5.86	mg/kg		5.86	mg/kg	0.000586 %		
		201-695-5	86-73-7									
23	phenanthrene				55.4	mg/kg		55.4	mg/kg	0.00554 %		
		201-581-5	85-01-8									
24	anthracene				13.9	mg/kg		13.9	mg/kg	0.00139 %		
		204-371-1	120-12-7									
25	fluoranthene				66.2	mg/kg		66.2	mg/kg	0.00662 %		
		205-912-4	206-44-0									
26	pyrene				60.4	mg/kg		60.4	mg/kg	0.00604 %		
		204-927-3	129-00-0									
27	benzo[a]anthracene				34.1	mg/kg		34.1	mg/kg	0.00341 %		
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				39.5	mg/kg		39.5	mg/kg	0.00395 %		
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				32.9	mg/kg		32.9	mg/kg	0.00329 %		
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				14.2	mg/kg		14.2	mg/kg	0.00142 %		
	601-036-00-5	205-916-6	207-08-9									
31	benzo[a]pyrene; benzo[def]chrysene				29	mg/kg		29	mg/kg	0.0029 %		
	601-032-00-3	200-028-5	50-32-8									
32	indeno[123-cd]pyrene				28.8	mg/kg		28.8	mg/kg	0.00288 %		
		205-893-2	193-39-5									
33	dibenz[a,h]anthracene				5.98	mg/kg		5.98	mg/kg	0.000598 %		
	601-041-00-2	200-181-8	53-70-3									

#	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							
34	benzo[ghi]perylene	205-883-8	191-24-2		22.9 mg/kg		22.9 mg/kg	0.00229 %		
35	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
36	tetrachloroethylene	602-028-00-4	204-825-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
37	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
38	trichloroethylene; trichloroethene	602-027-00-9	201-167-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
39	vinyl chloride; chloroethylene	602-023-00-7	200-831-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
Total:								0.377 %		

Key

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

Classification of sample: BH1[2]

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

Sample details

Sample name:	LoW Code:
BH1[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.90 m	Entry:
	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.943 mg/kg	0.000194 %		
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				1.1 mg/kg	1.142	1.257 mg/kg	0.000126 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27 mg/kg	<0.000227 %		<LOD
	024-017-00-8									
6	copper { dicopper oxide; copper (I) oxide }				33 mg/kg	1.126	37.154 mg/kg	0.00372 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	130 mg/kg	1.56	202.776 mg/kg	0.013 %		
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.6 mg/kg	1.353	0.812 mg/kg	0.0000812 %		
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				16 mg/kg	2.976	47.62 mg/kg	0.00476 %		
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc chromate }				65 mg/kg	2.774	180.32 mg/kg	0.018 %		
	024-007-00-3	236-878-9	13530-65-9							
12	TPH (C6 to C40) petroleum group				64 mg/kg		64 mg/kg	0.0064 %		
			TPH							
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
14	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
15	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
16	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
17	xylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [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									
		203-576-3 [3] 215-535-7 [4]	108-38-3 [3] 1330-20-7 [4]									
18	pH		PH		9.2	pH		9.2	pH	9.2 pH		
19	naphthalene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
	601-052-00-2	202-049-5	91-20-3									
20	acenaphthylene				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		205-917-1	208-96-8									
21	acenaphthene				0.07	mg/kg		0.07	mg/kg	0.000007 %		
		201-469-6	83-32-9									
22	fluorene				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		201-695-5	86-73-7									
23	phenanthrene				0.56	mg/kg		0.56	mg/kg	0.000056 %		
		201-581-5	85-01-8									
24	anthracene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		204-371-1	120-12-7									
25	fluoranthene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
		205-912-4	206-44-0									
26	pyrene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
		204-927-3	129-00-0									
27	benzo[a]anthracene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
	601-033-00-9	200-280-6	56-55-3									
28	chrysene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
	601-048-00-0	205-923-4	218-01-9									
29	benzo[b]fluoranthene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
	601-034-00-4	205-911-9	205-99-2									
30	benzo[k]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
	601-036-00-5	205-916-6	207-08-9									
31	benzo[a]pyrene; benzo[def]chrysene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
	601-032-00-3	200-028-5	50-32-8									
32	indeno[123-cd]pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		205-893-2	193-39-5									
33	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
34	benzo[ghi]perylene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		205-883-8	191-24-2									
35	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3									
36	tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4									
37	carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5									
38	trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6									
39	vinyl chloride; chloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4									
Total:										0.0493 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
•	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
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 Unlikely to be flammable at concentrations of less than 0.1%.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0064%)

Classification of sample: BH2[2]

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

Sample details

Sample name:	LoW Code:
BH2[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.80 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.7	mg/kg	2.775	1.943	mg/kg	0.000194 %		
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				1.3	mg/kg	1.142	1.485	mg/kg	0.000149 %		
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				45	mg/kg	1.126	50.665	mg/kg	0.00507 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	191	mg/kg	1.56	297.925	mg/kg	0.0191 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				1.19	mg/kg	1.353	1.611	mg/kg	0.000161 %		
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				19	mg/kg	2.976	56.549	mg/kg	0.00565 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				80	mg/kg	2.774	221.932	mg/kg	0.0222 %		
	024-007-00-3	236-878-9	13530-65-9									
12	pH				10.93	pH		10.93	pH	10.93 pH		
			PH									
13	naphthalene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
	601-052-00-2	202-049-5	91-20-3									
14	acenaphthylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		205-917-1	208-96-8									
15	acenaphthene				4.38	mg/kg		4.38	mg/kg	0.000438 %		
		201-469-6	83-32-9									
16	fluorene				3.32	mg/kg		3.32	mg/kg	0.000332 %		
		201-695-5	86-73-7									
17	phenanthrene				28.2	mg/kg		28.2	mg/kg	0.00282 %		
		201-581-5	85-01-8									

#	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							
18	anthracene	204-371-1	120-12-7		6.39 mg/kg		6.39 mg/kg	0.000639 %		
19	fluoranthene	205-912-4	206-44-0		28.8 mg/kg		28.8 mg/kg	0.00288 %		
20	pyrene	204-927-3	129-00-0		23.1 mg/kg		23.1 mg/kg	0.00231 %		
21	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	10.1 mg/kg		10.1 mg/kg	0.00101 %		
22	chrysene	601-048-00-0	205-923-4	218-01-9	8.87 mg/kg		8.87 mg/kg	0.000887 %		
23	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	8.94 mg/kg		8.94 mg/kg	0.000894 %		
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	3.38 mg/kg		3.38 mg/kg	0.000338 %		
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	8.74 mg/kg		8.74 mg/kg	0.000874 %		
26	indeno[123-cd]pyrene	205-893-2	193-39-5		4.72 mg/kg		4.72 mg/kg	0.000472 %		
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	1 mg/kg		1 mg/kg	0.0001 %		
28	benzo[ghi]perylene	205-883-8	191-24-2		3.4 mg/kg		3.4 mg/kg	0.00034 %		
Total:								0.0689 %		

Key

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

Classification of sample: WS2[2]

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

Sample details

Sample name:	LoW Code:
WS2[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.80 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				2	mg/kg	1.32	2.641	mg/kg	0.000264 %		
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %		
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				8	mg/kg	1.126	9.007	mg/kg	0.000901 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	13	mg/kg	1.56	20.278	mg/kg	0.0013 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				15	mg/kg	2.976	44.644	mg/kg	0.00446 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				28	mg/kg	2.774	77.676	mg/kg	0.00777 %		
	024-007-00-3	236-878-9	13530-65-9									
12	pH				8.72	pH		8.72	pH	8.72 pH		
			PH									
13	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
14	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
15	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
16	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
17	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									

#	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							
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
19	fluoranthene	205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
20	pyrene	204-927-3	129-00-0		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0158 %		

Key

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

Classification of sample: BH1[3]

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

Sample details

Sample name:	LoW Code:
BH1[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.90 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3	16	mg/kg	1.32	21.125	mg/kg	0.00211 %		
2	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9	<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
3	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2	<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0	0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %		
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8			<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1	6	mg/kg	1.126	6.755	mg/kg	0.000676 %		
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	8	mg/kg	1.56	12.479	mg/kg	0.0008 %	
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7	<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7	5	mg/kg	2.976	14.881	mg/kg	0.00149 %		
10	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5	<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
11	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9	18	mg/kg	2.774	49.935	mg/kg	0.00499 %		
12	pH		PH		8.11	pH		8.11	pH	8.11 pH		
13	naphthalene	601-052-00-2	202-049-5	91-20-3	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
14	acenaphthylene		205-917-1	208-96-8	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	acenaphthene		201-469-6	83-32-9	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	fluorene		201-695-5	86-73-7	<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	phenanthrene		201-581-5	85-01-8	<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<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							
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
19	fluoranthene	205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
20	pyrene	204-927-3	129-00-0		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0112 %		

Key

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

Classification of sample: BH2[3]

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

Sample details

Sample name:	LoW Code:
BH2[3]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.70 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				<1	mg/kg	1.32	<1.32	mg/kg	<0.000132 %		<LOD
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				<0.5	mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.6	mg/kg	1.142	0.685	mg/kg	0.0000685 %		
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1	mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8											
6	copper { dicopper oxide; copper (I) oxide }				4	mg/kg	1.126	4.504	mg/kg	0.00045 %		
	029-002-00-X	215-270-7	1317-39-1									
7	lead { lead chromate }			1	10	mg/kg	1.56	15.598	mg/kg	0.001 %		
	082-004-00-2	231-846-0	7758-97-6									
8	mercury { mercury dichloride }				<0.17	mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				7	mg/kg	2.976	20.834	mg/kg	0.00208 %		
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				12	mg/kg	2.774	33.29	mg/kg	0.00333 %		
	024-007-00-3	236-878-9	13530-65-9									
12	pH				8.57	pH		8.57	pH	8.57 pH		
			PH									
13	naphthalene				0.04	mg/kg		0.04	mg/kg	0.000004 %		
	601-052-00-2	202-049-5	91-20-3									
14	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
15	acenaphthene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		201-469-6	83-32-9									
16	fluorene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		201-695-5	86-73-7									
17	phenanthrene				1.58	mg/kg		1.58	mg/kg	0.000158 %		
		201-581-5	85-01-8									

#	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							
18	anthracene	204-371-1	120-12-7		0.32 mg/kg		0.32 mg/kg	0.000032 %		
19	fluoranthene	205-912-4	206-44-0		1.74 mg/kg		1.74 mg/kg	0.000174 %		
20	pyrene	204-927-3	129-00-0		1.41 mg/kg		1.41 mg/kg	0.000141 %		
21	benzo[a]anthracene	601-033-00-9	200-280-6		0.58 mg/kg		0.58 mg/kg	0.000058 %		
22	chrysene	601-048-00-0	205-923-4		0.6 mg/kg		0.6 mg/kg	0.00006 %		
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		0.56 mg/kg		0.56 mg/kg	0.000056 %		
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.23 mg/kg		0.23 mg/kg	0.000023 %		
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		0.61 mg/kg		0.61 mg/kg	0.000061 %		
26	indeno[123-cd]pyrene	205-893-2	193-39-5		0.34 mg/kg		0.34 mg/kg	0.000034 %		
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.08 mg/kg		0.08 mg/kg	0.000008 %		
28	benzo[ghi]perylene	205-883-8	191-24-2		0.28 mg/kg		0.28 mg/kg	0.000028 %		
Total:								0.0089 %		

Key

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

Classification of sample: WS6[2]

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

Sample details

Sample name:	LoW Code:
WS6[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.60 m	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				4 mg/kg	1.32	5.281	mg/kg	0.000528 %		
	033-003-00-0	215-481-4	1327-53-3								
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388	mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9								
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685	mg/kg	0.0000685 %		
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1 mg/kg	2.27	<2.27	mg/kg	<0.000227 %		<LOD
	024-017-00-8										
6	copper { dicopper oxide; copper (I) oxide }				5 mg/kg	1.126	5.629	mg/kg	0.000563 %		
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead chromate }			1	14 mg/kg	1.56	21.837	mg/kg	0.0014 %		
	082-004-00-2	231-846-0	7758-97-6								
8	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23	mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				8 mg/kg	2.976	23.81	mg/kg	0.00238 %		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { nickel selenate }				<1 mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc chromate }				15 mg/kg	2.774	41.612	mg/kg	0.00416 %		
	024-007-00-3	236-878-9	13530-65-9								
12	pH				8.57 pH		8.57	pH	8.57 pH		
			PH								
13	naphthalene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
14	acenaphthylene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8								
15	acenaphthene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9								
16	fluorene				<0.01 mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7								
17	phenanthrene				<0.03 mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8								

#	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							
18	anthracene	204-371-1	120-12-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
19	fluoranthene	205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
20	pyrene	204-927-3	129-00-0		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
22	chrysene	601-048-00-0	205-923-4		<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:								0.0101 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

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

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

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

Description/Comments:

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

Reason for additional Hazards Statement(s):

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

pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

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

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

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

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

Data source date: 21 Aug 2015

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

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

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

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

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

Data source date: 23 Jul 2015

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

▪ **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

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

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

Worst case species based on hazard statements/molecular weight (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2022.188.5235.9829 (07 Jul 2022)

HazWasteOnline Database: 2022.188.5235.9829 (07 Jul 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