



Geo-Environmental

GROUND INVESTIGATION REPORT

for the land at

PHASE 2 DEVELOPMENT, MANOR FARM,

LOWER ROAD, BEDHAMPTON,

HAMPSHIRE,

PO9 3LJ

on behalf of

BARGATE



Report:	GROUND INVESTIGATION REPORT
Site:	PHASE 2 DEVELOPMENT, MANOR FARM, LOWER ROAD, BEDHAMPTON, HAMPSHIRE, PO9 3LJ
Client:	BARGATE
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EXECUTIVE SUMMARY		
Site Details	Site Address	Phase 2 Development, Manor Farm, Lower Road, Bedhampton, Hampshire, PO9 3LJ
	National Grid Reference	469860, 105990
	Site Area	3.7Ha (approx.)
	Form of Development	It is understood that the site is proposed to be developed with houses (c. 70No. units), private gardens, access roads and associated infrastructure.
Encountered Conditions	Scope of works	An intrusive investigation was commissioned by the Client to investigate the ground and groundwater conditions and to support the development of geotechnical and geo-environmental assessments pertaining to the site in relation to the proposed development.
	Ground Conditions	The ground conditions encountered within the exploratory holes undertaken were broadly consistent with those anticipated, i.e. a thickness Topsoil overlying River Terrace Deposits, which in turn were found to overlie Chalk, presumably of the White Chalk Sub-Group.
	Groundwater	<p>Groundwater was encountered during the investigation works within WS203 at 4.0m bgl rising to 3.80m bgl after 20 minutes and within WS205 at 2.20m bgl rising to 2.00m bgl after 20 minutes.</p> <p>A period of groundwater monitoring has previously been undertaken across the site and reported within letter reports GE20565/WP01/220401 and GE21231/TU01/230414.</p>
Geotechnical Considerations	Foundations	<p>Based on the ground and groundwater conditions encountered in the exploratory holes, it is considered that conventional foundations may be suitable for low rise structures with foundations terminating within the River Terrace Deposits. However, due to shallow groundwater being encountered during the 2022/23 groundwater monitoring, this must be taken into account by the foundation designer.</p> <p>On the basis of the results of the Atterberg Limit tests in conjunction with the field observations it is considered that the cohesive soils of the River Terrace Deposits should be classified 'en-masse' as medium volume change potential, as defined by NHBC Standards, Chapter 4.2. for which a minimum founding depth of 0.90m bgl is required.</p> <p>Based on the ground conditions encountered, a preliminary net allowable bearing capacity of 90kPa is recommended for the firm to very stiff clay soils of the River Terrace Deposits, this being limited to reflect the presence of firm clay. Total settlements should remain within tolerable limits for this bearing capacity. Foundations terminating in, on or loading soft clay will not be suitable.</p> <p>If foundations terminate wholly within the in-situ Chalk, a preliminary net allowable bearing capacity of 150kPa is recommended, albeit this should only be used to design foundations where there is confidence that founding wholly within the Chalk will be achieved.</p> <p>Given the variability in ground conditions (varying proportions of clay, silt, sand and gravel), it is recommended that reinforcement is included in foundations.</p>
	Floor Slabs	Given the presence of shrinkable soils, suspended floor slabs are recommended. The minimum void height should be determined in accordance with NHBC Standards and account for the volume change potential of the underlying soils.
	Excavations	<p>Excavations within the River Terrace Deposits are likely to be stable in the short term only. The stability of excavations will be reduced where soils are exposed to surface water or groundwater, or where they are left open for longer periods of time.</p> <p>The need for entry into excavations should, where possible, be designed out. However, where this cannot be achieved entry of any personnel must only be permitted in</p>



EXECUTIVE SUMMARY		
		accordance with an approved risk assessment, method statement and safe system of work.
	Pavements	<p>Based on the laboratory results and the soils encountered on site, a preliminary equilibrium CBR of 2.5% is recommended for the River Terrace Deposits at the anticipated formation depth. Further testing may be required at the time of construction.</p> <p>The shallow soils should be assumed to be frost susceptible thus requiring a minimum pavement thickness of 450mm. Any hard or soft spots in the formation level may induce reflective cracking in the pavement and allowance should be made for removing hard or soft spots that may be present.</p>
	Buried Concrete	The results of the water soluble sulphate and pH analyses indicate that buried concrete should be designed in accordance with Class DS-1 of BRE Special Digest 1, with an ACEC class of AC-1s.
Environmental Considerations	Human Health	<p>In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria, for a residential with plant uptake use, where available. All of the results were noted to be below the respective assessment criteria, with the exception of one result for Barium.</p> <p>It is considered that the concentrations of Barium identified from testing are in-line with natural concentrations associated with the natural background concentration of UK soils and are not considered to be indicative of contamination which would require remedial action to protect end users.</p> <p>In addition, geochemical testing of the shallow soils across the site has not returned any positive identification for asbestos.</p>
	Groundwater	No pollutant linkages for groundwater have been identified in relation to the site, it is therefore considered that no risk mitigation measures are required.
	Radon Gas	No radon protection measures are required.
	Built Environment	The results of the relevant chemical analyses were below the specific thresholds, and therefore the use of barrier pipe for potable water supply is unlikely to be a requirement.
	Waste Disposal	The soil analyses from the site, were assessed using HazWasteOnline software. No properties attributable to hazardous waste were identified from screening of the testing undertaken.
<p>Further Action:</p> <ul style="list-style-type: none"> A discovery strategy must be maintained during development such that any abnormal or unexpected conditions (geotechnical or potential contamination) are identified, the discovery strategy should be enacted and their potential impact on the proposed development assessed prior to determining any potential mitigation measures. The results of the chemical analyses should be sent to the elected potable water supplier for confirmation of the selected water pipe. Should natural soils originating from the site be proposed for disposal, it is recommended that further testing of these specific soils be undertaken. <p><i>This Executive Summary is intended to provide a brief summary of the main findings and conclusions of the investigation. For detailed information, the reader is referred to the main report ref. GE22571/GIR/JUL25.</i></p>		



1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited (Geo-Environmental) was instructed by Bargate (the Client), to undertake an investigation of the geotechnical and geo-environmental factors pertaining to the proposed development of land at Phase 2 Development, Manor Farm, Lower Road, Bedhampton, Hampshire, PO9 3LJ (herein referred to as 'the site'). The site's location is presented in Figure 1.

A standalone Desk Study Report, reference GE19772/DSR/MAR21, was prepared previously by Geo-Environmental for the site.

1.2 Form of Development

It is understood that the site is proposed to be developed with houses (c. 70No. units), private gardens, access roads and associated infrastructure.

1.3 Objectives

The investigation was to comprise an intrusive investigation undertaken into the geotechnical and geo-environmental conditions pertaining to the site.

The data from the geotechnical investigation was to form the basis of a preliminary interpretation with respect to foundation design, concrete specification, pavement design and excavation stability.

The objective of the investigation and subsequent assessments was to evaluate the risks posed to the proposed redevelopment, adjacent land uses and the wider environment, in the context of likely planning requirements, immediate liabilities under the Environmental Protection Act 1990 and risks posed to Controlled Waters under the Water Resources Act from the current status of the site and in line with the current redevelopment.

1.4 Standards and References

Where practicable, the ground investigation and subsequent geotechnical and environmental assessments were undertaken in accordance with the following documents and guidance.

- National Planning Policy Framework, updated December 2024;
- Land Contamination Risk Management (LCRM), updated June 2025;
- Model Procedures for the Management of Contaminated Land, CLR11, DEFRA and Environment Agency 2004; (withdrawn)
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A2:2017 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2017;
- BS5930:2015+A1:2020 - Code of Practice for Site Investigations, BSI 2020;
- EN ISO 14688 Geotechnical Investigation and Testing Part 1-2002 and Part 2-2004;
- BS1377: 1990 - Soils for Civil Engineering Purposes, BSI1990;
- NHBC Standards Chapter 4.1 Land Quality - Managing Ground Conditions;
- NHBC Standards Chapter 4.2 Building Near Trees;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);
- NHBC NF94 – Hazardous Ground Gas – an essential guide for housebuilders – April 2023
- BS8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings;
- BRE BR240 Low-rise buildings on shrinkable clay soils: Part 1, 1993;



- BS3882:2015 Specification for topsoil and requirements for use, BSI 2015;
- BS8601:2013 Specification for subsoil and requirements or re-use, BSI 2013.

1.5 Conditions

This report does not purport to be a “Geotechnical Design Report” as defined in Clause 2.8 of Eurocode 7 (Geotechnical Design BS EN 1997-1:2004) and some of the data used to support this preliminary geotechnical assessment may not be fully compliant with that design code. It is considered possible that further detailed ground investigations could be required to facilitate the detailed geotechnical design process and should be carried out on a structure specific basis if necessary.

The desk study data where obtained/reviewed for the site or where presented as part of a previous phase of assessment is assumed to be factually correct and up to date at the point of purchase. No liability is taken for any omissions or inaccuracies in the data presented. It must also be noted that changes to the desk study data may occur following the production of this report, Geo-Environmental accepts no liability where this subsequently affects the assessment presented herein.

The data collected from the investigations have been used to provide an interpretation of the geotechnical and/or environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that either have not been revealed in the available records, or that occur between or under points of physical investigation, or that result from updates to desk-based data utilised subsequent to that presented herein or reviewed at the time of writing which may in turn alter the presented assessment. Whilst every effort has been made to interpret the conditions, such information is only indicative and liability cannot be accepted for its accuracy.

It must be noted that the findings and assessment presented herein are based on the ground and groundwater conditions as encountered at the time of investigation within the investigation positions undertaken and any associated testing and monitoring. The ground by its very nature is variable and the engineering properties of soils can vary over time, such as due to changes in soil moisture content, disturbance and similar factors. Similarly, groundwater conditions can and do vary over time. As such, if conditions are encountered which differ from those described herein, the Client or their appointed representative, e.g. contractor, must seek advice from a Geotechnical Engineer at the earliest practicable opportunity. It is possible that this could result in changes to the assessment presented herein.

It should be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. The absence of asbestos noted during the site walkover or within any soil samples analysed does not guarantee the absence of asbestos within buildings, within or bonded to concrete, as discrete burials, or within the soils mass elsewhere within a site. This report should not be taken as any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever express or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology. Exposure to contaminants and levels of adverse effects may therefore vary. Whilst reasonable care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future and no liability is accepted in this respect.

This report remains the property of Geo-Environmental and the Client has no rights to, or reliance upon this document or supporting documents until such time as payment has been received in full for all invoices for works undertaken in connection with this report.



2.0 DESK STUDY

A standalone Desk Study Report has previously been produced for the site by Geo-Environmental, ref GE19772/DSR/MAR21. A summary of the key findings of the desk study relevant to the investigation reported herein are presented in the following sections. For further detail, reference should be made to the Desk Study Report.

In addition, several previous phases of intrusive investigation works have also been undertaken across the site reported within the following reports:

- Soakage Testing Letter Report – GE20565/FG01/220111, dated 11th January 2022
- Winter Groundwater Monitoring Letter Report – GE20565/WP01/220401, dated 1st April 2022
- Winter Groundwater Monitoring (at swale and basing locations) Preliminary Letter Report – GE21231/TM01/221014, dated 14th October 2022
- Ground Investigation Letter Report (Deep Borehole) – GE20814/WP02/220518, dated 18th May 2022
- Winter Groundwater Monitoring (at swale and basing locations) Letter Report – GE21231/TU01/230414, dated 14th April 2023

Comments made in the following section regarding possible ground conditions on the site are based purely on the desk study and associated site walkovers, unless otherwise stated.

2.1 Site Description

At the time of the intrusive investigation works, May 2025, the site comprised an open arable field laid to grass/vegetation. The site showed evidence of recent archaeological trenching works understood to have been undertaken.

The site was accessed via a track located off Lower Road that ran around the edge of the Phase 1 development area onto the site. The site was noted to be generally flat and level with a slight slope southward towards an adjacent railway line.

A gas pipeline marker post was present along the southern boundary of the site, with further smaller marker posts showing what was understood to be the location of the gas pipeline running under the far south western corner of the site. Road pin type markers were noted to be present along the assumed location of an underlying water main, trending in a north-south direction along the western portion of the site. All of the investigation works were undertaken to the east of the water and north and east of the gas pipeline, with no works crossing these services.

The site was bounded by a car repair facility and residential uses to the north, residential uses to the east (Phase 1 area), a railway line to the south and trees with the A27 beyond to the west, located in an elevated position to the site.

2.2 Geology

British Geological Survey (BGS) geological mapping indicated the geology underlying the site to comprise (Undifferentiated) River Terrace Deposits, overlying the White Chalk Subgroup: Lewes Nodular Chalk, Formation, Seaford Chalk Formation, and the Newhaven Chalk Formation. In addition, it is possible that some reworked ground and/or Made Ground could be present within the site, or on/close to the site boundaries. Whilst a large embankment was located to the north-west and west, this was associated within a major road junction and the A3(M) and thus would be expected to be formed of select engineered fill, not general Made Ground and therefore is not considered likely to represent a soil type of concern on the context of the proposed development. Similarly, select fill materials are likely to be present on the railway line, e.g. track ballast, but again are not considered a soil type of specific concern for this assessment.



BS5930:2015 defines **Made Ground** as anthropogenic ground in which the material has been placed without engineering control and/or manufactured by man in some way, such as through crushing or washing, or arising from an industrial process. Great variations in material type, thickness and degree of compaction invariably occur and there can be deleterious or harmful matter, as well as potentially methanogenic organic material. In addition, on sites which have undergone several phases of historical development it is not uncommon for asbestos to be present within Made Ground soils.

The rivers of Southern England, including the Ancient Solent and its tributaries, have been subject to several changes of level since Pleistocene times. One result has been the formation of a complex series of **River Terrace Deposits**. The deposits are generally found at an elevation close to or higher than that of the existing rivers, and generally comprise sand and gravel of roughly bedded flint or chert of varying degrees of coarseness and with variable and sometimes appreciable clay content.

The **White Chalk Subgroup** is a soft white friable microporous limestone composed of coccolith biomicrites with a varying proportion of larger shell fragments. Flint characterises the White Chalk Subgroup, occurring as nodular courses, tabular beds and linings to fractures.

At various levels clay sized material occurs as marl seams and partings. Close to the surface the upper few metres are invariably discoloured brown, due to leaching from the overlying strata. The interface with any overlying stratum is invariably extremely irregular as a result of localised weathering and general solution. Weathering by frost action may extend to a depth of several metres.

Occasional erosional features, such as pipes, swallow holes and solution cavities, usually infilled with drift deposits, are found in the chalk, sometimes manifesting themselves at the surface as shallow circular depressions. Solution features may be reactivated by the concentrated ingress of water from leaking drains or soakaways. Reactivation may lead to surface collapse.

Within the Chalk outcrop on the south coast of England the traditional three-fold division into Lower, Middle and Upper Chalk is impractical for mapping purposes and only two divisions are mapped, these being the Grey Chalk Subgroup (formerly known as the Lower Chalk) and the White Chalk Subgroup (formerly the undivided Middle & Upper Chalk).

The nearest available BGS borehole record related to a position c. 50m to the south-west (BGS ID: 420183 : BGS Reference: SU60NE242, British National Grid (27700) : 469760,105790) and recorded a succession of 'Made up Ground' to c.0.6m bgl, 'mottle clay' to c. 3.3m bgl and 'Bungy Chalk' with flints and becoming 'Hard Chalk' (interpreted on the log as CIRIA Grade Dm. The log recorded water at 2.1m (7ft).

Previous phases of intrusive investigation work, as summarise in Section 2 above, carried out across the site by Geo-Environmental encountered ground conditions comprising a mantle of Topsoil overlying River Terrace Deposits with Chalk of the white Chalk Subgroup at depth. A summary of the ground conditions encountered during these previous phases of intrusive investigation works is presented in Table 2.1.



Top (m bgl)	Base (m bgl)	Description
0	0.10-0.50	TOPSOIL: Crop stubble over dark brown slightly gravelly CLAY with frequent roots and rootlets; Brown slightly sandy gravelly SILT with frequent rootlets.
0.10-0.50	2.40-3.50	RIVER TERRACE DEPOSITS: Firm to stiff orange brown CLAY with varying proportions of medium to coarse sub angular to sub rounded flint gravel with occasional flint cobbles; Firm light brown CLAY with varying proportions of fine to coarse sub angular to sub rounded flint and chalk gravel.
2.40	>10.00	CHALK: Recovered as structureless off white weathered CHALK composed of silty chalk matrix with weak to moderately weak strength sand to gravel sized chalk clasts.

Table 2.1 Summary of encountered ground conditions during previous phase of intrusive investigation works by Geo-Environmental

2.3 Hydrogeology

With reference to Envirocheck report, the superficial and bedrock strata were classified as Secondary 'A' Aquifer and Principal Aquifer, respectively.

Secondary 'A' Aquifers are defined as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Principal Aquifers are layers of rock or drift deposits that have high intergranular and/or fracture permeability, meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.

The groundwater vulnerability record states that both the superficial and bedrock aquifers are 'productive'.

Soluble rock risk on the site is recorded to vary from significant risk – low possibility to Very significant risk – high possibility. This is assumed to reflect the anticipated presence of River Terrace Deposits (lower possibility) and Chalk (high possibility). This does not necessarily mean that active dissolution of strata is occurring, or has occurred, but that soluble strata are present.

The site was indicated to be outside of any Source Protection Zone (SPZ). An SPZ is a protection zone placed around a well or borehole that supplies groundwater of potable quality. However, A Source Protection Zone I (SPZ I) was identified 227m to the north and an SPZ Ic was identified 423m to the north.

- o Zone I - Travel time (of water) of 50 days or less to the groundwater source.
- o Zone Ic - Travel time of 50 days or less to the groundwater source - subsurface activity only.
- o Zone II - Either 25% of the source area or a travel time of 400 days whichever is greater.
- o Zone III - The total area needed to support the discharge and abstraction from the protected groundwater source.

No potable water abstractions (from the ground) were identified within 500m of the site, the nearest being at Bedhampton Springs 578m north-east and 714m north-east of the site for potable supply.

No discharge consents to land/soakaway or pollution incidents to groundwater were recorded within 500m of the site.

The BGS record states that there is potential for groundwater flooding to occur at ground surface on the site, and that there is potential for groundwater flooding to properties situated below ground level on the western fringe of the site. However, it should be noted that there is a railway cutting to the immediate south of the site, which forms part of the main south coast rail infrastructure. Thus, large scale groundwater flooding would appear less likely at



or close to ground level given the proximity of this operational railway line.

2.4 Hydrology

Drainage features (a ditch and culvert) were visible immediately beyond the western site boundary and appeared to comprise part of a surface drainage system from the adjacent road junction and were not recorded as surface water features in the Envirocheck report. With reference to the Envirocheck report, the closest surface water feature was located approximately 200m to the south and comprised an unnamed drainage ditch/channel. The tidal lagoon of Langstone Harbour was located c. 450m to the south of the site and Hermitage Stream (a tidal estuary) c. 300m to the east of the site. Whilst the Envirocheck report indicated the subject site to be located outside the extent of extreme flooding from rivers, it is possible that a Flood Risk Assessment would need to be undertaken in order to inform planning and design strategies for the site.

Four Discharge Consents to surface water were recorded within 500m of the site and comprised:

- 200m North – storm tank on sewage network with discharge to saline estuary. Revoked 6th March 1996.
- 353m East – sewage discharge to saline estuary. Revoked 18th April 1996.
- 391m South-east (two entries) – trade effluent to saline estuary. Revoked 13th June 1998 and 31st March 2018.

Three Pollution Incidents to Controlled Waters (surface water) were recorded within 500m of the site and comprised:

- 29m East – crude sewage in stream, Category 1 incident, dated 28th March 1997. There does not appear to be a stream at this location and it is assumed that the record position is incorrect. The closest streams to the site are a roadside ditch 200m to the South, or Hermitage Stream c. 300m to the East.
- 323m South-west – road traffic accident resulting in milk spillage, Category 3 incident, dated 25th May 1996.
- 420m East – oil on stream, Category 2 incident, dated 12th May 1994.

Given the dates of these incidents and distances from the site (noting the assumed positional error for Category 1), it is considered that these incidents are unlikely to have resulted in lasting adverse environmental impact on the subject site.

2.5 Radon

The Envirocheck report states that the site lies in an area where less than 1% of homes are above the Action Level as defined by Public Health England. The BGS record states that no radon protective measures are necessary in the construction of the new dwellings within the site boundary.

2.6 Summary of Other Key Environmental Factors

A 'Tank' was recorded as being on site, but it is located immediately beyond the northern boundary. Inspection of the vessel during the walkover survey revealed it to be a cylindrical structure formed from/clad in corrugated metal, with what appeared to be a door located on the south-western portion of the structure. Based on visual inspection, this appeared more likely to be a store of granular materials, such as a seed/grain store or the like.

One landfill was recorded within 250-500m of the site, recorded under three separate names and positions but all within the same overall boundary as:

- 182m south-east – Broadmarsh landfill.
- 184m south-east – Harts Farm landfill.
- 365m south-east – Storhouse Lake Tip.



This off-site landfill is located to the south of the railway line (including shallow cutting) and to the south of the A27 which again includes a section of cutting and is at a lower elevation than the landfill.



3.0 PRELIMINARY RISK ASSESSMENT SUMMARY

The Preliminary Risk Assessment (PRA) and Conceptual Site Model (CSM) developed from the information gathered as part of the desk study (ref. GE19772/DSR/MAR21) process identified plausible potential pollutant linkages that exist in relation to the proposed residential redevelopment of the site. However, the preliminary risk rating for each potential linkage identified ranged from moderate, moderate/low to very low with a moderate risk assigned in relation to ground gases.

The potential pollutant linkages established within the desk study were not considered to prevent development on the subject site but were considered to require investigation and assessment to support further characterisation, calibration of the CSM and where/if necessary, determine a remedial strategy to reduce, remove or otherwise control any risk within the site to key receptors.

In order to progress the assessment in line with best practice guidance and to provide further characterisation of the site and refinement of the PRA and CSM, it was recommended that an intrusive investigation and associated testing was to be undertaken to confirm the findings of the desk study report and to provide a robust risk assessment for the site and proposed redevelopment. As such, it was recommended that a geochemical and geotechnical investigation be carried out on the site to include analysis of soil and groundwater (if encountered) samples for the range of potential contaminants identified within the desk study.

3.1 Potential Contamination

The site's historic and current uses appeared to comprise farmland and thus it would be expected that there would be limited potential for gross soil contamination to be present on the site. Nonetheless, it is possible that Made Ground could be present in proximity to the site, e.g. the former farm complex and light industrial land immediately to the north. Whilst Made Ground was recorded on BGS mapping to the north and west, this appeared to relate to the adjacent highway earthworks and thus would be expected to comprise select engineered fill which would typically have low to negligible potential to be a source of gross contamination.

Services are known to cross the site and comprise a gas main in the south-western corner and a water main crossing through the site from north to south. It is typical for such services either to be surrounded by inert gravel, or for the excavated soil to be used as backfill. As such, these are not considered to represent sources of soil contamination.

The railway line adjacent to the site could represent an historic source for potential aerial deposition of contaminants such as heavy metals and PAH compounds associated with smoke from engines. However, steam engines are likely to have been phased out during the 1950s or 1960s. As such, the railway as an operational running line is considered likely to have resulted in negligible impact to the subject site.

Whilst several waste treatment/disposal and landfill sites were identified to the south and south-east, these were c. 200m or more from the south of the railway cutting which formed the site's southern boundary. These off-site sources also appeared to include extensive areas of soft landscaping and were generally at an elevation similar to, or higher than the subject site, such that any potential gas migration might be expected to be upwards or laterally through cover soils and to atmosphere rather than laterally through the ground. In addition, the railway cutting is considered to act as a barrier to migration of ground gas and thus potential sources to the south of the cutting are not considered plausible sources in the context of the subject site.

Therefore, given the lack of plausible on-site sources and negligible migration potential associated with off-site sources, it is considered that ground gas is a very low risk to the site unless Made Ground material underlying the site are found to contain a significant proportion of organic material.



4.0 GROUND INVESTIGATION

4.1 Scope of Works

The scope of the works undertaken as part of the intrusive investigation works at the site comprised:

- Attendance of a specialist surveyor to undertake a buried utilities clearance survey using radiodetection and ground penetrating radar techniques. The survey included the capture of co-ordinates and levels of exploratory holes using GPS surveying.
- Attendance of a Geo-Environmental Engineer to set out and supervise the intrusive investigation, undertake sampling, in-situ testing and logging of recovered soils from exploratory holes.
- The construction of 16No. machine dug trial pits to provisional depths of 3m bgl (TP201-TP216)
- Construction of 5No. dynamic sampler boreholes with Standard Penetration Tests (SPTs) at regular intervals to depths of up to 5m bgl, depending on drilling conditions, using a self-propelled track mounted rig (WS201-WS205).
- Geotechnical laboratory testing to support the geotechnical assessment for foundations, ground floor construction, roads (soaked lab CBRs) and buried concrete design.
- Geochemical laboratory testing for a suite of commonly occurring brownfield contaminants.

4.2 Investigation Strategy

The positioning of exploratory holes was determined on site to provide general coverage. Table 4.1 sets out the investigation strategy adopted.

Area of Concern	Investigation	Positions
General ground conditions	Exploratory holes located across the site, coupled with sampling and laboratory analysis.	All
Potential contamination of near surface soils	Exploratory holes located to provide coverage of the site, coupled with sampling and laboratory analysis.	All

Table 4.1 Summary of the Investigation Strategy

Soil samples were collected and placed into amber jars and cool boxes on site for transit to the office, where they were stored under chilled conditions (<4°C) prior to final transportation in cool boxes to the laboratory by their in-house courier. Both the geotechnical and contamination testing were undertaken by UKAS accredited laboratories (where appropriate). Contamination testing of soil samples was also undertaken in accordance with accredited MCERTS protocols. Samples were stored in temperature-controlled conditions from sampling until receipt at the laboratory from which time sample preparation and storage was determined by testing requirements and in line with laboratory's protocols.



5.0 ENCOUNTERED CONDITIONS

A factual record of the conditions encountered during the investigation of the site is presented in the following sections.

For further details of the ground conditions, reference should be made to the exploratory hole logs and in situ testing presented in Appendix A, the geotechnical testing results presented in Appendix B, and geochemical testing results presented in Appendix C.

The physical ground investigation works were undertaken from 8th to 12th May 2025

5.1 Soils

With reference to British Geological Survey (BGS) mapping and previous investigation works on the subject site, the geology of the site was anticipated to comprise a mantle of Topsoil overlying sand and gravel of the River Terrace Deposits which in turn overlies the White Chalk Sub-Group.

The ground conditions encountered within the exploratory holes undertaken under this phase of ground investigation were broadly consistent with those anticipated, i.e. Topsoil overlying strata considered characteristic of the River Terrace Deposits overlying chalk of the White Chalk Sub-Group. A generalised summary of the encountered shallow ground conditions is presented in Table 5.1.

Unless stated otherwise, all depths are reported as metres below ground level (m bgl).

Top (m bgl)	Base (m bgl)	Geology	Positions
0	0.15 – 0.30	TOPSOIL: Grass over dark brown slightly silty slightly sandy CLAY with frequent roots and rootlets.	All
0.15 – 0.30	1.35 - 3.60	RIVER TERRACE DEPOSITS: Firm to stiff CLAY with varying proportions of silt and sand and frequent to rare flint gravel/cobbles; Stiff to very stiff off white and light brown gravelly CLAY gravel fine to medium subangular to subrounded of chalk; Stiff orange brown gravelly CLAY gravel fine to medium sub angular to subrounded of flint	All
1.35 – 3.60	>5.00	WHITE CHALK SUB-GROUP: Structureless white and light brown CHALK in a clayey gravelly matrix with weak strength chalk clasts. CIRIA Grade DM; Structureless off white CHALK in a silty gravelly matrix with weak strength chalk clasts. CIRIA Grade Dm; recovered (in WS holes) as structureless off white putty like CHALK in a silty gravelly matrix with weak strength chalk clasts.	TP201-TP202, TP204-TP205, TP207, TP209-TP215, WS201-WS205

NOTE: rotary drilling and core recovery did not form part of the investigation and thus CIRIA classification of Chalk was limited to observations of shallow strata as encountered in trial pits during this phase of investigation.

Table 5.1 Summary of Ground Conditions

It should be noted that during the drilling of WS205 the borehole collapsed to 3.00m bgl due to the presence of water following the SPT testing. As such, it was necessary to over drill in order to obtain a sample from 3.00m-4.00m bgl. Therefore, the soft clay recorded at 4.10m beneath the chalk is likely to be a result of this collapse of the superficial deposits and over drilling.

Hand penetrometer testing was undertaken in the cohesive soils of the River Terrace Deposits. These results ranged from 0.8kg/cm² to 4.0kg/cm² (firm to very stiff).

The exploratory hole logs are presented within Appendix A and the exploratory hole location plan is presented in Figure 2.



5.2 Groundwater

Groundwater was encountered during the investigation works within WS203 at a depth of 4.0m bgl rising to 3.80m bgl after 20 minutes, and within WS205 at 2.20m bgl rising to 2.00m bgl after 20 minutes.

It is possible that groundwater could be present at differing depths over time, e.g. during or following prolonged wet periods. The presence of groundwater in excavations is likely to influence suitability and buildability of foundations, services and the like. This may mean that conventional foundations are not constructible under some conditions, during winter months and following heavy rainfall. This will require careful consideration throughout the design and construction process.

A period of groundwater monitoring has previously been undertaken across the site and reported within letter reports GE20565/WP01/220401 and GE21231/TU01/230414. Reference should be made to these reports for further information.

5.3 Obstructions

No obstructions were encountered during the intrusive works. However, it must be noted that a high-pressure gas main runs across the south western corner of the site and is marked with marker posts. In addition, a water main is located in the west of the site running in a north-south direction. At the time of the intrusive works this was marked with road pins.

5.4 Geotechnical Testing

In-situ Standard Penetration Tests (SPTs) were undertaken within the dynamic window sampler boreholes, these results ranged between uncorrected SPT 'N' values of N=4 to N=15 within the River Terrace Deposits and SPT 'N' values of N=4 and N=20 in the Chalk. SPT results are presented on the exploratory hole logs presented in Appendix A and an SPT 'N' Value vs Depth Plot presented within Figure 4.

The results of laboratory geotechnical testing undertaken as part of the ground investigation are summarised in Table 5.2 with test results presented in Appendix B.

Parameter	River Terrace Deposits	White Chalk	Number of tests
Natural Moisture Content (%)	13.1 – 23.9	-	10
Liquid Limit (%)	26 – 59	-	
Plastic Limit (%)	15 – 18	-	
Plasticity Index (%)	12 – 41	-	
Modified Plasticity Index (%)	11 – 36	-	
Particle Size Distribution Passing 425µm	75 – 99	-	
Saturation Moisture Content (%)	-	24.0 – 25.8	2
Bulk Density (mg/m ³)	-	1.98 – 2.02	
Dry Density (mg/m ³)	-	1.59 – 1.64	
pH	7.7 – 8.4	8.1 – 8.7	10
Water Soluble Sulphate (mg/l)	3.26 – 6.18	8.69 – 16	
Acid Soluble Sulphate (%)	0.012 – 0.052	0.044 – 0.051	
Total Sulphur (%)	<0.005 – 0.018	0.014 – 0.019	
Total Potential Sulphate (%) *	0.015 – 0.054	0.042 – 0.057	
Oxidisable Sulphides (%) *	0 – 0.014	-0.003 – 0.006	
Soaked CBR (%)	2.4 – 9.6	-	4

NOTE: Modified plasticity index is defined in NHBC Standards Chapter 4.2;

* values derived from lab results in accordance with BRE SD1

Table 5.2 Summary of Geotechnical Test Results

The Modified Plasticity Index range showed the cohesive samples of the River Terrace Deposits to be Low to Medium Volume Change Potential, as defined in BRE and NHBC guidance.

The Saturation Moisture Content laboratory testing demonstrated that the tested chalk was of Medium Density.

5.5 Chemical Analysis

In order to assess the general chemical quality of the strata encountered, samples of soils recovered from the exploratory holes were submitted for analysis for a range of potential contaminants selected on the basis of the findings of the desk study report and supported by CLR publication CLR8 and Environment Agency R&D66 publication. The intrusive investigation did not encounter conditions that required a revision of the preliminary risk assessment presented within the desk study for the site.

The testing rationale included sampling and analysis to provide a general coverage of the subject site. Testing was undertaken for a broad range of commonly occurring contaminants including metals, metalloids, inorganic compounds, speciated TPH, PAH and asbestos.

Laboratory Test	Number of samples tested	Geological Unit
Generic Brownfield Suite	4	Topsoil
	8	River Terrace Deposits

Table 5.3 Summary of Chemical Laboratory Tests Undertaken by Soil Type



6.0 ENGINEERING CONSIDERATIONS

Subsequent to the intrusive investigation of the site and receipt of the laboratory test results, the following geotechnical assessments have been made.

6.1 Foundations

Based on the ground and groundwater conditions encountered in the exploratory holes, it is considered that conventional foundations may be suitable for low rise structures with foundations terminating within the River Terrace Deposits or White Chalk Sub-Group. However, due to shallow groundwater being encountered during the 2022/23 groundwater monitoring, the foundation designer must take account of constructability of conventional foundations and additional measures may be required to support excavations and/or control groundwater ingress into foundation excavations during construction, or an alternative foundation solution considered.

On the basis of the results of the Atterberg Limit tests in conjunction with the field observations it is considered that the cohesive soils of the River Terrace Deposits should be classified '*en-masse*' as medium volume change potential, as defined by NHBC Standards, Chapter 4.2, for which a minimum founding depth of 0.90m bgl is required. However, it is also likely that localised deepening of foundations would be required if/where desiccation is present at the time of construction (it should be noted that desiccation is a transient condition) and for foundations constructed within the zone of influence of trees (anticipated as up to c. 20-25m from high water demand trees) and that piled foundations could be required within 5-10m of high water demand trees, or in areas where shallow groundwater has been identified due to the potential for constructability issues.

Foundations which are proposed in proximity to trees (remaining, removed or proposed) should be designed in accordance with NHBC Standards Chapter 4.2, and design approaches 4.2B and 4.2C, which incorporate the water demand of trees and the distance of the tree from the nearest portion of foundation.

SPTs and hand penetrometer results indicated the soils of the River Terrace Deposits to generally range from firm to very stiff consistency. The firm to very stiff soils would be a suitable bearing stratum for conventional strip or trench foundations, albeit assuming that groundwater is absent at the proposed founding depth. The presence of water within excavations could significantly hinder or potentially prevent construction of conventional foundations. Soft or soft to firm soils are not suitable as a founding stratum.

On the basis of the ground conditions encountered, a preliminary net allowable bearing capacity of 90kPa is recommended for the firm to very stiff clay soils of the River Terrace Deposits, this being limited to reflect the presence of firm clay and the anticipated long term settlement characteristics. Total settlements should remain within tolerable limits for this bearing capacity. Foundations terminating in, on or loading soft clay will not be suitable.

Given the variability in ground conditions (varying proportions of clay, silt, sand and gravel), it is recommended that nominal reinforcement is included in foundations.

Foundation excavations should be concreted or blinded as soon after excavation as possible. Where concreting could take place the following day it is recommended that excavations are not taken to full depth overnight and that the final 0.5m of cover is only removed immediately prior to concreting.

The depth to the underlying Chalk varied across the site, with chalk being encountered between depths of 1.35m bgl to depths greater than 3m bgl (in excess of the depth of the investigation locations). Therefore, Chalk is not anticipated to be present at founding depth, unless it is necessary to deepen foundations, e.g. if desiccation is present at the time of construction (it should be noted that desiccation is a transient condition), for foundations constructed within the zone of influence of trees, or where a piled foundation solution is necessary. If foundations terminate wholly within the in-situ Chalk, a preliminary net allowable bearing capacity of 150kPa is recommended, albeit this should only be used to design foundations where there is confidence that founding wholly within the



Chalk will be achieved.

6.2 Floor Slabs

Given the presence of shrinkable soils, suspended floor slabs are recommended. The minimum void height should be determined in accordance with NHBC Standards and account for the volume change potential of the underlying soils.

6.3 Excavations

Excavations within the River Terrace Deposits are likely to be stable in the short term only. The stability of excavations will also be reduced where soils are exposed to surface water or groundwater, or where they are left open for longer periods of time.

Groundworks should be designed in such a manner to avoid personnel entry into unsupported excavations. Where this cannot be avoided, such entry must only be into supported excavations in accordance with a safe system of work and relevant legislation, e.g. Confined Spaces Regulations, and accounting for potential contamination.

With the exception of WS205, shallow groundwater was not encountered within the exploratory holes during the recent intrusive investigation, (May 2025). However, the works were undertaken during a period of dry weather. Groundwater levels can vary significantly seasonally, and in periods of wet weather, and shallow groundwater was encountered during the 2022/23 winter groundwater monitoring undertaken by Geo-Environmental. It is, therefore, possible that shallow or perched groundwater could be encountered, depending on the season or weather conditions preceding excavations.

In the event that excavations become unstable, the sides should either be shuttered or over-excavated to form vertical sides in order to avoid potential adverse heave on foundations at a later date. Long, deep excavations will require some support, particularly if they are to be left open for long periods.

6.4 Pavements

Remoulded soaked laboratory CBR testing was undertaken from samples recovered from shallow depth (assumed sub-grade formation level) across the site so as to provide a general coverage. The results of the laboratory testing indicated a remoulded soaked CBR value of between 2.4% and 9.6%.

Therefore, based on the laboratory results and the soils encountered on site, a preliminary equilibrium CBR of 2.5% is recommended for the River Terrace Deposits at the anticipated formation depth.

The shallow soils should be assumed to be frost susceptible thus requiring a minimum pavement thickness of 450mm. For clay soils, frost susceptibility is based on a Plasticity Index value of <20% where drainage is poor and shallow water is anticipated (as observed with winter waterlogging). Any hard or soft spots in the formation level may induce reflective cracking in the pavement and allowance should be made for removing hard or soft spots that may be present.

In accordance with Hampshire County Council's guidance, geogrid reinforcement would be recommended within the road construction for any road sections which cross areas of previously vegetated ground, i.e. hedgerows, where trees have been felled and the like.

6.5 Sulphates

The results of the water soluble sulphate and pH analyses indicate that buried concrete should be designed in accordance with Class DS-1 of BRE Special Digest 1, with an ACEC class of AC-1s. The advice of this publication should be taken for the design and specification of all sub surface concrete.



7.0 ENVIRONMENTAL CONSIDERATIONS

A Generic Quantitative Risk Assessment (GQRA) has been undertaken incorporating the results of the ground investigation, the findings of which are presented in the following sections.

Site workers involved in the preparation and construction of the development have not been considered further in this assessment as the Principal Contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

7.1 Outline Risk Assessment

Soil samples were also collected from across the site and included analysis of Topsoil and natural soils. The samples were submitted for analysis for a suite of commonly occurring contaminants including metals, metalloids, inorganic compounds, speciated TPH, PAH and asbestos.

The intrusive investigation did not encounter conditions that required a revision of the preliminary risk assessment presented within the desk study for the site.

7.2 Soil Contamination vs. End Users

The presence of a possible contaminant does not necessarily imply that a site or area is contaminated or that there is any unacceptable risk to human health. A Preliminary Quantitative Risk Assessment has been undertaken in order to evaluate any unacceptable risks posed to human health with respect to the proposed redevelopment. It should be noted that this assessment is protective of the chronic long-term effects of contaminants, which is also likely to be protective of any possible immediate acute effects.

A quantitative risk assessment has been undertaken by comparing the results of the laboratory chemical testing of shallow soils against the ATRISKSIL Soil Screening Values (SSVs) derived by Atkins, or against the Suitable for Use Levels (S4ULs) published by LQM (Copyright Land Quality Management Limited reproduced with permission, Publication Number S4UL3453. All rights Reserved) and Category 4 Screening Levels (C4SLs) published by DEFRA for the proposed end use. Although the C4SLs were released for Part 2A use, the associated policy companion document for the C4SLs indicated that they may also be used for planning. Although the C4SLs represent a marginally higher risk level than the SSACs (low risk rather than minimal risk) it is considered that the risk levels remain very low. Therefore, the final C4SLs are considered to be suitable to assess soils under the planning regime.

In the first instance the results of the sample analysis were compared to the Tier 1 screening criteria, for a residential with plant uptake use, where available. All of the results were noted to be below the respective assessment criteria, with the exception of one result for Barium. WS202 at 0.3m bgl recorded a concentration of Barium of 91mg/kg, the Atkins Atrisk screening value for Barium for a residential use with plant uptake is 56.8mg/kg.

A review of the Environment Agency UK Soil and Herbage Pollutant Survey UKSHS Report No. 7 Environmental concentrations of heavy metals in UK Soil and Heritage, 2010, has been undertaken with respect to Barium. The report states that Barium (Ba) is a relatively common naturally occurring element mainly found in acid igneous rocks. The report states that an average of 672mg/kg was reported by Ure and Bacon (1978) for British soils, with a range of 32 - 556mg/kg reported in Soils in England and Wales by Alloway et al. (1998), which considered soils at 34No.sites remote from obvious sources of pollution, with a mean concentration of 117mg/kg and a medium of 82mg/kg.

In addition, a review of the UK Soil Observatory map viewer has been undertaken. This indicates that the site lies within an area where background Barium concentrations within soils underlying the site are reported as being 234.89mg/kg. The reported results for the site are considerably lower than these background concentrations.

It is considered that the concentrations of Barium identified from testing are in-line with natural concentrations associated with the natural background concentration of UK soils and are not considered to be indicative of



contamination which would require remedial action to protect end users. In addition, no potential sources of potential Barium were identified as part of the desk study assessment previously undertaken for the site.

In addition, samples submitted for laboratory testing were also screened for asbestos. Geochemical testing of the shallow soils across the site has not returned any positive identification for asbestos. Nonetheless, the absence of asbestos in samples analysed does not mean that asbestos might not be present at locations remote from exploratory holes.

Based on the above assessment it is considered that no remediation is deemed necessary for the site, neither is it considered that any further investigation works are required.

It is not considered likely that Topsoil would need to be imported to the site, however, should further Topsoil need to be imported onto site, for use within to private gardens and soft landscaped areas of the site, prior to importation, the chemical, physical and nutritional suitability should be verified. Importation of topsoil or subsoil from unverified or unsuitable sources would require their removal from site and replacement with suitable materials. As a matter of good practice, it is recommended that the location, approximate extent and thickness of any imported topsoil are recorded and presented in the Validation/Verification Report to be prepared by the Environmental Consultant.

7.3 Soil Contamination vs. Adjacent land Users

Surrounding land uses comprised residential properties to the north and east of the site with the railway line to the south with agricultural land beyond and the A27/A3 interchange to the west. On the basis of the testing undertaken to date, it is considered that no significant risks to adjacent land users exist.

However, short term risks to adjacent land users may arise in relation to the generation of soil derived dust and particles as fugitive emissions from the site during the construction phase. Therefore, it is recommended that dust suppression techniques, e.g. damping down exposed soils, are employed during the ground works and construction phases on site in order to minimise and manage potential nuisance issues for adjacent land users.

7.4 Soil Contamination vs. Soft Landscaping

British Standard BS3882:2015 *Specification for topsoil and requirements for use* provides assessment criteria for a number of potentially phytotoxic contaminants in terms of new planting.

The results of the chemical analysis for determinands known to pose a potential phytotoxic risk to plant growth are summarised in Table 7.1, together with the respective adopted Generic Assessment Criteria (GAC) for plant growth. The compliance criteria set out in BS3882:2015 are pH dependent and thus the GAC used relate to the pH range measured on samples recovered from the site.

Determinand	Phytotoxicity GAC (mg/kg)			GAC Exceedances
	pH <6.0	pH 6.0-7.0	pH >7.0	
Zinc	200	200	300	No
Copper	100	135	200	No
Nickel	60	75	110	No

Table 7.1 Summary of Plant Phytotoxicity Assessment

The phytotoxicity assessment did not identified any exceedances of the phytotoxicity criteria. As such it is considered that no specific measures are required in this respect.

7.5 Soil Contamination vs. Built Environment

Recommendations with respect to pH and sulphate in relation to buried concrete are made in Section 6.5.



The current guidance on the selection of materials for water supply pipes to be laid in contaminated land is contained in UK Water Industry Research's (UKWIR) report reference 10/WM/03/21 (re-issued 2010). However, the guidance is not mandatory and there has been concerns raised by various industry technical associations regarding the document and the methodologies proposed. Although there are concerns regarding the document, in lieu of any further guidance in the first instance the results of this investigation have been compared with the proposed thresholds published in UKWIR Table 3.1.

The results of the relevant chemical analyses indicate that all concentrations were below the specific thresholds, and therefore the use of barrier pipe is unlikely to be a requirement. It is therefore recommended that the results of this investigation be presented to the water utility company as soon as reasonably practicable in order to confirm the pipe material.

As a matter of good practice and to maximise the protection to maintenance workers, it is recommended that clean, granular backfill is used in service runs and that marker tapes are used for all buried services.

7.6 Soil Contamination vs. Groundwater

The investigation did not identify any mobile contamination and thus in the absence of a pollutant linkage, no further action is warranted.

7.7 Groundwater vs Human Health

The desk study did not identify any potential sources of mobile contamination on the site and the intrusive investigation works have not identified any mobile contamination within the soils analysed on the site.

Due diligence and a watching brief should be undertaken as a part of the site clearance/demolition and development works and if any currently unidentified potential sources of mobile contamination are identified these should then be further assessed in line with the discovery strategy for the site.

End users are unlikely to come in to contact with groundwater and thus in the absence of a plausible pollutant linkage between groundwater and end-users, no specific protection measures are considered likely to be required in this respect.

7.8 Groundwater vs Soft Landscaping

Encountered groundwater levels are not considered to be located within the root zone of influence for the soft landscaping on the site. In addition, soil analysis has not identified elevated contaminant concentrations, such that could have resulted in contaminants being mobilised to the groundwater and the vegetation on and around the site showed no evidence of stress. As such, it is considered that no specific action is warranted with respect to soft landscaping.

7.9 Groundwater vs Built Environment

Protection measures for the Built Environment as discussed in Section 7.5 are considered appropriate.

7.10 Groundwater vs Controlled Waters

In the absence of any evidence of mobile contamination and elevated contaminant concentrations within soils tested, it is considered that no action is required in terms of risks to control waters.

However, should dewatering be required as part of the proposed development then water pumped out will need to be disposed of under the appropriate duty of care and should not be discharge to any watercourses or ditches without an appropriate permission, sediment control measures and any other limitations or regulatory/statutory requirements being met prior to discharge.



7.11 Update Conceptual Site Model

Intrusive investigation and subsequent generic quantitative risk assessments have been undertaken to provide a general coverage of the site in relation to the proposed purchase of the site. These assessments are considered sufficient to suitably refine the risks identified in the preliminary Conceptual Site Model.

Following the assessments detailed above the Conceptual Site Model has been updated as summarised in Table 7.2.

Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
Made Ground Soils (likely to be specific areas of the site only, not site wide)	End users	Direct contact	Unlikely	Mild	Very Low End users could come into contact with soils via direct contact as the development will include private gardens and soft landscaping. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Soft Landscaping	Root Uptake	Unlikely	Mild	Very Low The proposed development is likely to include areas of private gardens and soft landscaping. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Adjacent land users	Direct or indirect contact	Unlikely	Mild	Very Low Adjacent site users are unlikely to come into contact with soils. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Water supply pipes	Direct contact	Unlikely	Mild	Very Low Water supply pipes could come into contact with impacted soils depending upon depth of installation. Sampling and laboratory testing did not identify the presence of contaminants that would warrant the installation of specific specialist water pipes. However, this should be confirmed with the water utility provider.
	Buildings and infrastructure	Direct contact	Likely	Mild	Low Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate). Sampling and laboratory testing demonstrated that buried concrete should be designed in line with DS1 and AC1s.
	Surface Water	Lateral Migration	Unlikely	Minor	Very Low No surface water bodies were identified as being present on site. Sampling and laboratory testing did not identify the presence of mobile contaminants.
	Groundwater	Vertical migration	Unlikely	Medium	Low The area is underlain by a Principal Aquifer but not located within an SPZ. Shallow (<5m bgl) groundwater could be present, albeit likely to be discontinuous given that there is a railway cutting along the site's



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Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
					southern boundary. Sampling and laboratory testing did not identify the presence of mobile contaminants.
Shallow Soils	End users	Direct contact	Unlikely	Mild	Very Low End users could come into contact with soils via direct contact as the development will include private gardens and soft landscaping. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Soft Landscaping	Root Uptake	Unlikely	Mild	Very Low The proposed development is likely to include areas of private gardens and soft landscaping. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Adjacent land users	Direct or indirect contact	Unlikely	Mild	Very Low Adjacent site users are unlikely to come into contact with soils. Sampling and laboratory testing did not identify the presence of contaminants above the relevant screening criteria.
	Water supply pipes	Direct contact	Unlikely	Mild	Very Low Water supply pipes could come into contact with impacted soils depending upon depth of installation. Sampling and laboratory testing did not identify the presence of contaminants that would warrant the installation of specific specialist water pipes. However, this should be confirmed with the water utility provider.
	Buildings and infrastructure	Direct contact	Likely	Mild	Low Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate). Sampling and laboratory testing demonstrated that buried concrete should be designed in line with DS1 and AC1s.
	Surface Water	Lateral Migration	Unlikely	Minor	Very Low No surface water bodies were identified as being present on site. Sampling and laboratory testing did not identify the presence of mobile contaminants.
	Groundwater	Vertical migration	Unlikely	Medium	Low The area is underlain by a Principal Aquifer but not located within an SPZ. Shallow (<5m bgl) groundwater could be present, albeit likely to be

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Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
					discontinuous given that there is a railway cutting along the site's southern boundary. Sampling and laboratory testing did not identify the presence of mobile contaminants.
Off-site 'Tank' ^{\$}	End users	Inhalation	Unlikely	Medium	Very Low Future residents are unlikely to come into contact with the off-site tank. Whilst the 'tank' appeared from visual inspection to be more like a small grain silo than a fuel tank, it is possible, dependent on the tank's use, that mobile contamination could have been stored in the tank. Given that the farm appears to no longer be in use, any impact is likely to be residual, i.e. not a replenishing source. Sampling and laboratory testing did not identify the presence of mobile contaminants.
	Adjacent land users	Inhalation	Unlikely	Medium	Very Low The potential source and receptors are both off-site. The proposed development is highly unlikely to create any migration pathway. Sampling and laboratory testing did not identify the presence of mobile contaminants.
	Groundwater	Vertical Migration	Unlikely	Medium	Low The area is underlain by a Principal Aquifer but not located within an SPZ. Shallow (<5m bgl) groundwater could be present, albeit likely to be discontinuous given that there is a railway cutting along the site's southern boundary. Sampling and laboratory testing did not identify the presence of mobile contaminants.

NOTE: \$ see Desk Study Report for further information regarding the off-site tank.

Table 7.2 Updated Conceptual Site Model



7.12 Waste Disposal

The soil analyses from the site were assessed using HazWasteOnline software. No properties attributable to hazardous waste were identified from screening of the testing undertaken. The HazWasteOnline results are included within Appendix D.

The majority of natural soils at the site are considered likely be classified as Inert Waste (under the respective EWC codes), suitable for disposal at an inert landfill facility, where they are free for asbestos or mobile contaminants. Any soils identified as containing asbestos or mobile contaminants e.g. hydrocarbon may be classified as Hazardous waste.

It must be noted that any waste classification assessment is indicative only and actual classification would depend on permit status of the final disposal facility. Once soils for disposal have been identified it is recommended that further testing of these specific soils be undertaken in order to confirm the above assessment.

In accordance with the CL:AIRE Definition of Waste Code of Practice (2011) materials are only considered waste if 'they are discarded, intended to be discarded or required to be discarded by the holder'.

The Code of Practice therefore allows soils to be reused on site where the following criteria are met:

- The re-use of the soils will not present an unacceptable or increased risk to controlled waters, the environment and human health;
- The soils are suitable both in terms of chemical and geotechnical properties for the intended use without prior treatment;
- Only the required volume is used and no more;
- There is a required use and a certainty of use not just a possibility.

In order to comply with the Code of Practice, a Materials Management Plan (MMP) that confirms the above criteria are met must be prepared. Where a remediation strategy is in place for the site, this must be agreed by the regulators to support the re-use of the MMP. The MMP must be reviewed by a 'Qualified Person' who then issues a declaration to the Environment Agency. The MMP and declaration must be in place before soils are excavated and it cannot be applied retrospectively. Geo-Environmental can provide this service should it be required.

Where materials do not meet the required criteria, it may be possible to treat them under an environmental permit so that they may be re-used on site. In addition, where material is discarded as waste, it may still be possible to reuse the waste on site under a standard rules environmental permit or an appropriate waste exemption (please be aware waste exemptions are changing in 2025). However, strict limits on the volumes that can be reused apply in these cases.

Under current legislation, where wastes are to be disposed of to landfill, they may, depending on their classification, require pre-treatment. Pre-treatment shall comprise a chemical, physical (including sorting), thermal or biological process. The pre-treatment is required to change the characteristics of the waste, reduce its volume, reduce its hazardous nature, and facilitate its handling and enhance its recovery.

Other materials disposed of from site as part of the development of the site may require disposal separately. All materials containing dangerous substances e.g. tar or bitumen, asbestos, mercury, hydrocarbons, PCBs and asbestos are likely to be classified as Hazardous Waste and therefore susceptible to the relevant legislative controls.



8.0 DISCOVERY STRATEGY

Whilst an intrusive investigation has been undertaken on the site, it remains possible that unexpected ground and/or groundwater conditions may be encountered during the process of construction.

Should previously undiscovered contamination or unforeseen ground conditions be encountered during construction by the ground workers, this must be reported to the Site Manager immediately in order that the Consultant is notified.

Where deemed necessary, the Consultant shall attend the site to inspect the discovery and provide recommendations on the further actions required, if any. Where necessary the regulatory authority shall be informed. Post any additional investigation or laboratory testing the results and any proposed remedial measures shall be reported to the regulatory authority or other appropriate organisation for consent, before proceeding or implementing the remedial measures.

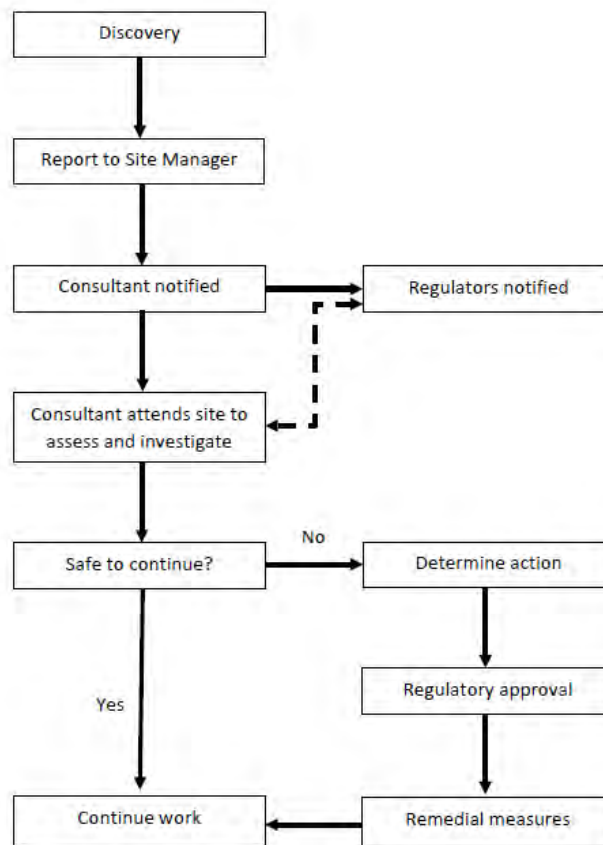
A copy of the discovery strategy must be lodged on site, and provisions made to ensure that all workers are made aware of their responsibility to observe, report, and act on any potentially suspicious, abnormal, unforeseen or contaminated ground and/or groundwater conditions they may encounter.

Depending on the type, nature and extent of any such 'discovery', it may be necessary to halt works in that location until such time as the assessment has been completed. This shall be reviewed on a 'discovery' specific basis and in conjunction with consultation with the client, other technical personnel and/or regulatory/approval organisations.

As a general guide, where such unexpected conditions are encountered the following approach is required as a minimum:

- All discoveries are to be reported to the Site Manager immediately and works at that location are to halt until further notice;
- The Site Manager is to report any such discoveries to the Client and the Consultant;
- Following notification from the Site Manager, the Consultant shall discuss the discovery with the Local Authority and/or other relevant parties and if considered necessary, arrange to meet on site to view the discovery;
- The Consultant shall attend the site to record the location, extent and nature of the discovery and implement an appropriate sampling and analysis regime, taking due account of the type and nature of the discovery, known and probable land uses in that area of the site;
- Where remedial action is required, regulatory consultation and approval will be sought;
- A record will be produced by the Consultant and held on site (with copies held by the Consultant, Client and Local Authority/other relevant organisation), detailing the discovery, assessment works undertaken, findings thereof, confirmation either of no action required or detailing the remedial action taken and validation thereof.

The process is summarised overleaf:

**Discovery Strategy Process**

FIGURES





Legend

Site Boundary

0 50 m 100 m
© Mapbox



Geo-Environmental

Produced by **Datanest.earth**

Title: Site Location

Client: Bargate

Size: A4

Project:
Land off Lower
Road,
Bedhampton -
Phase 2

Drawn: LL

Figure No.: 1

Date: 28-04-2025

Checked: LL

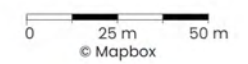
Proj No: GE22571

Scale: 1:3908

Version: 1.0



- Legend**
- Window Sampler Boreholes (With SPTs)
 - Trial Pit Locations
 - Site Boundary



Geo-Environmental
Produced by Datanest.earth

Title: Exploratory Hole Location Plan		
Client: Bargate		Size: A4
Project: Land off Lower Road, Bedhampton - Phase 2	Drawn: LL	Figure No: 2
Date: 01-07-2025	Checked: GR	
Proj No: GE22571	Scale: 1:2072	Version: 1.0



- Legend**
- Proposed Development Layout
 - Site Boundary

0 25 m 50 m
© Mapbox



Geo-Environmental
Produced by Datanest.earth

Title: Proposed Development Layout Plan

Client: Bargate Size: A4

Project:
Land off Lower
Road,
Bedhampton -
Phase 2

Drawn: FG

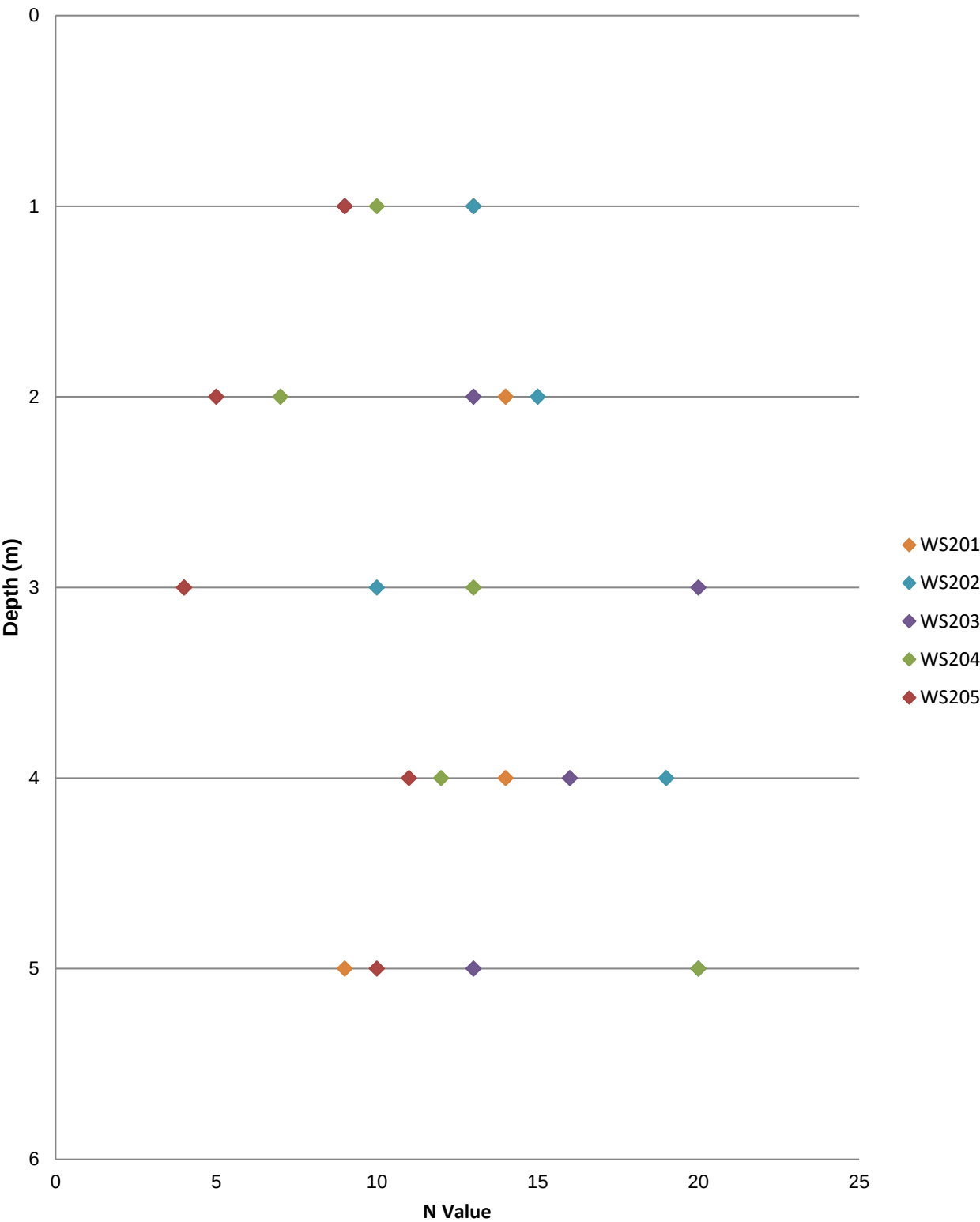
Figure No: 3

Date: 01-07-2025 Checked: FG

Proj No: GE22571 Scale: 1:1658 Version: 1.0

- SITE LEGEND:**
- Application Boundary Line
 - Accessibility Route
 - Shared Corridor
 - Block Boundary Wall - 1.8m height
 - Close Board Fence - 1.8m height
 - Post and Rail Fence - 1.8m height
 - Public Footing - 1.5m height
 - Paving Bay

 <div> Geo-Environmental Services Limited www.gesl.net +44 (0)1273 832 972 </div>	<div>SPT N Value Vs Depth</div>
Project ID: GE22571	Project Title: Manor Farm, Bedhampton Phase 2
Client: Bargate	Location: Bedhampton

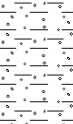
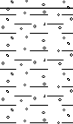
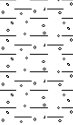
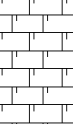


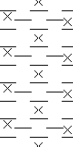
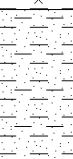
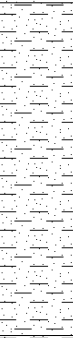
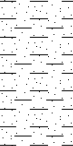
APPENDIX A

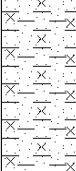
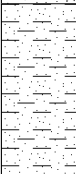
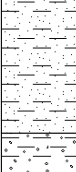
Exploratory Hole Logs

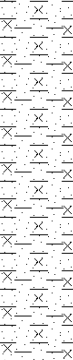


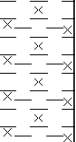
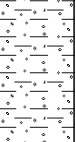
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	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469897.1	Northing: 106104.0	Ground Level: 7.11mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, overcast, breezy		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.15	ES1	PP=3kg/cm2	6.86	0.25		Grass over dark brown slightly sandy slightly silty CLAY with frequent roots and rootlets TOPSOIL		0.5	
0.50	D1			(0.65)		Firm to stiff brown slightly silty CLAY with occasional rootlets RIVER TERRACE DEPOSITS			
0.80	ES2	PP=3.1kg/cm2	6.21	0.90		Stiff brown slightly sandy CLAY with frequent flint gravel and cobbles RIVER TERRACE DEPOSITS		1.0	
1.00	D2			(0.45)					
1.50	D3		5.76	1.35		Structureless white and light brown CHALK in a clayey gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP		1.5	
				(0.45)					
2.00	D4		5.31	1.80		Structureless off white CHALK in a silty gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP		2.0	
				(0.45)					
2.50	D5			(1.70)				2.5	
									
3.00	D6							3.0	
									
			3.61	3.50		End of Trial Pit at 3.50m		3.5	
Dimensions:					Photo:				
Final Depth:	3.50m				 08/05/2025 09:01 PhotoofPit				
Final Width:	0.60m								
Final Length:	3.00m								
Remarks					 PhotoofSpoil				
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP202			
	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1				
	Easting: 469863.2	Northing: 106086.0	Ground Level: 6.81mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25				
Trial Pit Log				Weather: Dry, sunny		Hole Termination:		Stability: Sides stable		
Samples & In Situ Testing			Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.30	ES1		6.66	0.15		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL				
0.50	B1			(0.45)		Firm to stiff brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS			0.5	
0.50	D1		6.21	0.60		Very stiff brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS				
1.00	D2			(0.80)					1.0	
1.50	D3		5.41	1.40		Structureless off white CHALK in a silty gravelly matrix with weak strength chalk clasts and rare flint cobbles. Circa grade DM WHITE CHALK SUBGROUP			1.5	
2.00	D4			(1.80)					2.0	
2.50	D5								2.5	
3.00	D6								3.0	
			3.61	3.20		End of Trial Pit at 3.20m			3.5	
Dimensions:			Photo:							
Final Depth:	3.20m		 PhotoofPit							
Final Width:	0.60m									
Final Length:	3.20m									
Remarks			 PhotoofSpoil							
Groundwater not encountered										
Water Strikes (mbgl)										
Depth Strike	Rose to	Time Elapsed (mins)								

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2		Client: Bargate			Trial Pit ID: TP203			
	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469833.6	Northing: 106046.8	Ground Level: 6.86mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, cloudy		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.20	ES1	PP=2.4kg/cm2	6.56	(0.30)		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5		
0.50	D1			(0.30)		Firm to stiff brown slightly silty CLAY with rare rootlets and flint gravel RIVER TERRACE DEPOSITS			
1.00	D2	PP=2.5kg/cm2	5.76	(0.80)		Stiff orange and grey slightly sandy CLAY. Sand is fine RIVER TERRACE DEPOSITS	1.0		
1.00	ES2			(0.80)					
1.50	D3	PP=3.5kg/cm2	5.26	(0.50)		Stiff orange and brown slightly sandy CLAY. Sand is fine RIVER TERRACE DEPOSITS	1.5		
2.00	D4			(0.50)					
2.50	D5	PP=3.4kg/cm2	4.16	(1.10)		Stiff orange and brown slightly sandy CLAY with occasional chalk gravel. Sand is fine RIVER TERRACE DEPOSITS	2.0		
3.00				(1.10)					
3.30	D6		3.66	(0.40)		Stiff brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS	2.5		
3.60				(0.40)					
			3.26	3.60		End of Trial Pit at 3.60m	3.5		
Dimensions:					Photo:				
Final Depth:	3.60m				 				
Final Width:	0.60m								
Final Length:	3.40m								
Remarks									
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2		Client: Bargate			Trial Pit ID: TP204			
	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469840.0	Northing: 106017.4	Ground Level: 6.34mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Weather: Dry, cloudy		Hole Termination:			Stability: Sides stable				
Samples & In Situ Testing				Strata Details				Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.35 0.50	ES1 D1	PP=3.1kg/cm2	6.14	0.20 (0.60)		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL			
						Firm to stiff orange brown slightly silty sandy CLAY with rare rootlets. Sand is fine RIVER TERRACE DEPOSITS			
1.00 1.00	B1 D2	PP=3.4kg/cm2	5.54	0.80 (1.00)		Stiff orange and brown slightly sandy CLAY with rare flint cobbles. Sand is fine RIVER TERRACE DEPOSITS			
1.50	D3	PP=2.7kg/cm2	4.54	1.80 (1.00)		Stiff brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS			
2.00	D4		3.54	2.80		Structureless off white CHALK in a very clayey gravelly matrix with weak strength chalk clasts and rare flint gravel. Circa grade DM WHITE CHALK SUBGROUP			
2.50	D5		3.34	3.00		End of Trial Pit at 3.00m			
3.00	D6								
Dimensions:					Photo:				
Final Depth:	3.00m				 PhotoofPit				
Final Width:	0.60m								
Final Length:	3.20m								
Remarks					 PhotoofSpoil				
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike		Rose to	Time Elapsed (mins)						

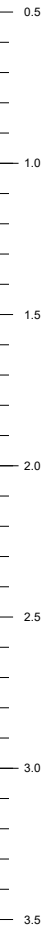
 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2		Client: Bargate			Trial Pit ID: TP205					
	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1					
	Easting: 469874.9	Northing: 106055.0	Ground Level: 6.40mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25					
Trial Pit Log		Weather: Dry, cloudy		Hole Termination:		Stability: Sides stable					
Samples & In Situ Testing			Strata Details					Water	Backfill		
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description					
0.40 0.50	ES1 D1	PP=2.8kg/cm2	6.20	0.20		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5 1.0 1.5 2.0 2.5 3.0 3.5				
				(1.20)		Firm to stiff orange brown slightly silty slightly sandy CLAY with rare flint cobbles. Sand is fine RIVER TERRACE DEPOSITS					
1.00	D2	PP=3.1kg/cm2									
1.50	D3		5.00	1.40		Structureless off white CHALK in a silty gravelly matrix with weak strength chalk clasts and rare flint cobbles. Circa grade DM WHITE CHALK SUBGROUP					
2.00	D4										
2.50	D5			(1.80)							
3.00	D6										
			3.20	3.20		End of Trial Pit at 3.20m					
Dimensions:										Photo:	
Final Depth:	3.20m									 PhotoofPit	
Final Width:	0.60m										
Final Length:	3.00m										
Remarks										 PhotoofSpoil	
Groundwater not encountered											
Water Strikes (mbgl)											
Depth Strike		Rose to			Time Elapsed (mins)						

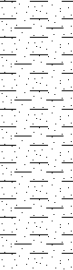
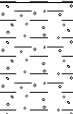
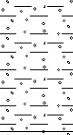
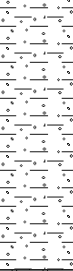
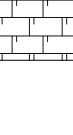
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	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469910.8	Northing: 106068.4	Ground Level: 6.82mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, cloudy		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.15	ES1	PP=2.4kg/cm2	6.62	0.20		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL		0.5	
0.50	D1			(0.50)		Firm to stiff orange brown slightly silty CLAY. RIVER TERRACE DEPOSITS			
						Stiff orange and brown mottled CLAY. RIVER TERRACE DEPOSITS			
1.00	D2	PP=3.2kg/cm2	6.12	0.70				1.0	
1.20	ES2								
1.50	D3	PP=2.5kg/cm2							
2.00	D4	PP=2.5kg/cm2	4.42	2.40		Stiff light brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS		2.5	
2.50	D5								
3.00	D6								
			3.62	3.20		End of Trial Pit at 3.20m		3.5	
Dimensions:					Photo:				
Final Depth:	3.20m								
Final Width:	0.60m								
Final Length:	3.10m								
Remarks									
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike		Rose to		Time Elapsed (mins)					
					PhotoofPit				
					PhotoofSpoil				

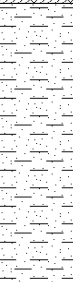
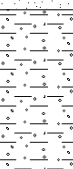
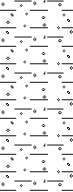
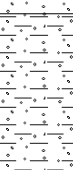
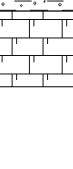
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	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469867.0	Northing: 106031.8	Ground Level: 6.22mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, cloudy		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.10	ES1	PP=3kg/cm2	6.07	0.15		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5		
0.50	D1			(0.55)		Firm to stiff reddish brown slightly silty CLAY with rare rootlets RIVER TERRACE DEPOSITS			
0.50	ES2								
1.00	D2	PP=2.6kg/cm2	5.52	0.70		Stiff orange brown slightly sandy slightly gravelly CLAY with rare flint cobbles. Sand is fine and gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS	1.0		
1.50	D3	PP=3.4kg/cm2		(1.40)					
									
2.50	D4		4.12	2.10		Structureless off white CHALK in a very clayey gravelly matrix with gravel sized weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP	2.0		
				(0.90)					
									
3.00	D5		3.22	3.00		End of Trial Pit at 3.00m	3.0		
							3.5		
Dimensions:					Photo:				
Final Depth:	3.00m				 PhotoofPit				
Final Width:	0.60m								
Final Length:	3.10m								
Remarks					 PhotoofSpoil				
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

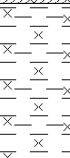
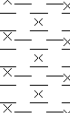
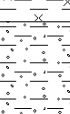
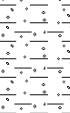
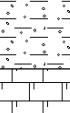
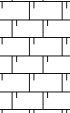
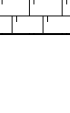
 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP208			
	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1				
	Easting: 469936.1	Northing: 106035.1	Ground Level: 6.28mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25				
Trial Pit Log				Weather: Dry, cloudy		Hole Termination:		Stability: Sides stable		
Samples & In Situ Testing			Strata Details						Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description				
0.20	ES1	PP=3kg/cm2	6.13	0.15		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL		0.5		
0.50	D1			(0.55)		Firm to stiff orange brown slightly silty CLAY RIVER TERRACE DEPOSITS				
			5.58	0.70		Stiff orange brown slightly gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS		1.0		
1.00	D2	PP=2.2kg/cm2		(1.20)				1.5		
1.50	D3	PP=2.5kg/cm2								
2.00	D4		4.38	1.90		Stiff light brown and off white very gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint and chalk RIVER TERRACE DEPOSITS		2.0		
				(1.20)				2.5		
3.00	D5		3.18	3.10		End of Trial Pit at 3.10m		3.0		
								3.5		
Dimensions:					Photo:					
Final Depth:	3.10m				 08/05/2025 13:34 PhotoofPit					
Final Width:	0.60m									
Final Length:	3.20m									
Remarks					 PhotoofSpoil					
Groundwater not encountered										
Water Strikes (mbgl)										
Depth Strike	Rose to		Time Elapsed (mins)							

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP209		
	Contract Number: GE22571	Date Started: 09/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469897.2	Northing: 105986.3	Ground Level: 5.45mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, sunny		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.15	ES1	PP=3kg/cm2	5.25	0.20		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL		0.5	
0.50	D1			(1.10)		Stiff orange brown slightly gravelly CLAY with rare rootlets. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS			
1.00	D2			PP=3.5kg/cm2	4.15	1.30			
1.50	D3	PP=3.5kg/cm2	3.60	(0.55)		Stiff light brown and off white very gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk and flint RIVER TERRACE DEPOSITS		1.5	
2.00	D4	(0.95)			Stiff light brown and off white very gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk and flint RIVER TERRACE DEPOSITS				
2.50	D5	2.65		2.80		Structureless off white CHALK in a clayey gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP			
3.00	D6		2.45	3.00		End of Trial Pit at 3.00m		3.0	
Dimensions:					Photo:				
Final Depth:	3.00m				 PhotoofPit				
Final Width:	0.60m								
Final Length:	3.10m								
Remarks					 PhotoofSpoil				
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP210				
	Contract Number: GE22571	Date Started: 08/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1					
	Easting: 469929.0	Northing: 106004.0	Ground Level: 6.00mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25					
Trial Pit Log		Weather: Dry, cloudy		Hole Termination:			Stability: Sides stable				
Samples & In Situ Testing			Strata Details					Water	Backfill		
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description					
0.50	D1	PP=2.5kg/cm2	5.85	0.15		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL					
1.00	D2	PP=3.5kg/cm2	4.80	1.20		Firm to stiff orange brown slightly silty CLAY with rare rootlets and flint gravel RIVER TERRACE DEPOSITS					
					(1.05)						
1.50	D3	PP=3kg/cm2	4.15	1.85		Stiff orange brown slightly silty CLAY RIVER TERRACE DEPOSITS					
					(0.65)						
2.00	D4		3.00	3.00		Structureless off white CHALK in a silty gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP					
					(1.15)						
2.50	D5										
3.00	D6					End of Trial Pit at 3.00m					
Dimensions:										Photo:	
Final Depth:		3.00m								 PhotoofPit	
Final Width:		0.60m									
Final Length:		3.20m									
Remarks										 PhotoofSpoil	
Groundwater not encountered											
Water Strikes (mbgl)											
Depth Strike		Rose to		Time Elapsed (mins)							

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP211		
	Contract Number: GE22571	Date Started: 09/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469943.4	Northing: 105986.3	Ground Level: 5.85mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, sunny		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.30	ES1	PP=3kg/cm2	5.65	0.20		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5		
0.50	D1			(0.90)		Firm to stiff orange brown slightly sandy CLAY with occasional rootlets. Sand is fine RIVER TERRACE DEPOSITS			
1.00	D2	PP=3.1kg/cm2	4.75	1.10		Stiff orange brown slightly gravelly CLAY with occasional flint cobbles. Gravel is fine to medium sub angular to sub rounded RIVER TERRACE DEPOSITS	1.0		
1.10	ES2			(0.80)					
1.50	D3	PP=3.2kg/cm2	3.95	1.90		Stiff light brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint and chalk RIVER TERRACE DEPOSITS	2.0		
2.00	D4			(0.90)					
2.50	D5		3.05	2.80		Structureless off white CHALK in a very clayey gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP	2.5		
3.00	D6			2.85	3.00				
						End of Trial Pit at 3.00m		3.0	
								3.5	
Dimensions:						Photo:			
Final Depth:	3.00m					 09/05/2025 11:24			
Final Width:	0.60m								
Final Length:	3.20m								
Remarks									
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP212		
	Contract Number: GE22571	Date Started: 09/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469903.1	Northing: 105954.4	Ground Level: 5.15mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, sunny		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.30	ES1	PP=2.5kg/cm2	4.90	0.25		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL		0.5	
0.50 0.50	B1 D1					Stiff orange brown slightly sandy CLAY with occasional rootlets. Sand is fine RIVER TERRACE DEPOSITS			
1.00	D2	PP=4kg/cm2	3.95	1.20		Stiff orange brown gravelly CLAY with occasional flint cobbles. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS		1.0	
1.50	D3	PP=2.8kg/cm2				Stiff orange brown gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS			
2.00	D4	PP=3.5kg/cm2	2.75	2.40		Stiff orange brown gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS		2.5	
2.50	D5					Structureless off white putty like CHALK in a silty gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP			
3.00	D6		2.20	2.95				3.0	
			1.95	3.20		End of Trial Pit at 3.20m		3.5	
Dimensions:					Photo:				
Final Depth:	3.20m				 PhotoofPit				
Final Width:	0.60m								
Final Length:	3.40m								
Remarks					 PhotoofSpoil				
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike		Rose to		Time Elapsed (mins)					

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP213		
	Contract Number: GE22571	Date Started: 09/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469863.1	Northing: 105928.7	Ground Level: 4.86mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, sunny		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.40 0.50	ES1 D1	PP=3.5kg/cm2	4.61	0.25		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5		
				(0.95)		Stiff orange brown slightly silty CLAY with occasional rootlets RIVER TERRACE DEPOSITS			
1.00	D2	PP=3.7kg/cm2					1.0		
1.50	D3	PP=3.6kg/cm2	3.66	1.20		Stiff orange brown slightly gravelly CLAY RIVER TERRACE DEPOSITS	1.5		
				(0.90)					
2.00	D4						2.0		
			2.76	2.10		Structureless off white putty CHALK in a silty gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP	2.5		
2.50	D5								
				(1.00)			3.0		
3.00	D6		1.76	3.10			3.5		
						End of Trial Pit at 3.10m			
Dimensions:					Photo:				
Final Depth:	3.10m				 PhotoofPit				
Final Width:	0.60m								
Final Length:	3.30m								
Remarks					 PhotoofSpoil				
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP214		
	Contract Number: GE22571	Date Started: 09/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469852.3	Northing: 105980.8	Ground Level: 5.57mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log				Weather: Dry, sunny		Hole Termination:		Stability: Sides stable	
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.25	ES1	PP=2.4kg/cm2	5.27	(0.30)		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5		
0.50	D1			0.30		Stiff orange brown gravelly CLAY with occasional rootlets RIVER TERRACE DEPOSITS			
0.50				(0.40)					
1.00	D2		4.87	0.70		Stiff light brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS	1.0		
1.50	D3			(1.10)					
1.50	ES2								
2.00	D4		3.77	1.80		Structureless off white CHALK in a clayey gravelly matrix with weak strength chalk clasts. Circa grade DM WHITE CHALK SUBGROUP	2.0		
2.50	D5			(1.30)					
3.00	D6								
			2.47	3.10		End of Trial Pit at 3.10m	3.0		
							3.5		
Dimensions:					Photo:				
Final Depth:	3.10m				 09/05/2025 09:50				
Final Width:	0.60m								
Final Length:	3.20m								
Remarks									
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike	Rose to		Time Elapsed (mins)						



Client:	Bargate
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Trial Pit ID:	TP215
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Contract Number:	Date Started:	Logged By:	Checked By:	Status:
GE22571	08/05/2025	FG	GE	FINAL

Sheet 1 of 1

Trial Pit Log

Easting:	Northing:	Ground Level:	Plant Used:	Date Printed:
469914.0	106028.9	6.32mOD	13t	01/07/2025

Scale: 1:25

Weather: Dry, cloudy	Hole Termination:	Stability: Sides stable
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Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.50 0.50	B1 D1	PP=2.6kg/cm2	6.12	0.20		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	0.5 <		

Dimensions:

Final Depth:	3.10m
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Final Width:	0.60m
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Final Length:	3.20m
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Remarks

Groundwater not encountered

Water Strikes (mbgl)

Depth Strike

Rose to

Time Elapsed (mins)

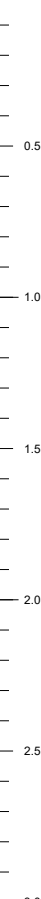
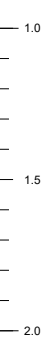
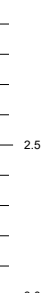
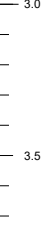
Photo:



PhotoofPit



PhotoofSpoil

 Geo-Environmental	Contract Name: Manor Farm, Bedhampton Phase 2			Client: Bargate			Trial Pit ID: TP216		
	Contract Number: GE22571	Date Started: 09/05/2025	Logged By: FG	Checked By: GE	Status: FINAL	Sheet 1 of 1			
	Easting: 469877.0	Northing: 106002.1	Ground Level: 5.70mOD	Plant Used: 13t	Date Printed: 01/07/2025	Scale: 1:25			
Trial Pit Log		Weather: Dry, sunny		Hole Termination:		Stability: Sides stable			
Samples & In Situ Testing			Strata Details					Water	Backfill
Depths	Sample ID	Test Result	Reduced Level	Depth (m) (Thickness)	Legend	Strata Description			
0.50	D1	PP=2.5kg/cm2	5.50	0.20		Grass over dark brown slightly silty CLAY with frequent roots and rootlets			
						TOPSOIL			
0.80	ES1					Stiff orange brown gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint			
1.00	D2	PP=3kg/cm2				RIVER TERRACE DEPOSITS			
						Band of flint cobbles			
1.50	D3	PP=2.6kg/cm2	(2.00)						
									
									
									
									
2.00	D4	PP=2.1kg/cm2	3.50	2.20		Stiff orange brown very gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk and flint			
						RIVER TERRACE DEPOSITS			
									
									
									
3.00	D5		3.00	2.70		Stiff light brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk			
			(0.30)			RIVER TERRACE DEPOSITS			
						End of Trial Pit at 3.00m			
Dimensions:									
Final Depth:		3.00m							
Final Width:		0.60m							
Final Length:		3.20m							
Remarks									
Groundwater not encountered									
Water Strikes (mbgl)									
Depth Strike		Rose to			Time Elapsed (mins)				
Photo:									
									
09/05/2025 09:23					PhotoofPit				
					PhotoofSpoil				



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Borehole Log

Borehole No.

WS201

Sheet 1 of 2

Project Name: Manor Farm, Bedhampton
Phase 2

Project No.
GE22571

Co-ords: 469914E - 106089N

Hole Type	WLS
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
15	0.0000
16	0.0000
17	0.0000
18	0.0000
19	0.0000
20	0.0000
21	0.0000
22	0.0000
23	0.0000
24	0.0000
25	0.0000
26	0.0000
27	0.0000
28	0.0000
29	0.0000
30	0.0000
31	0.0000
32	0.0000
33	0.0000
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35	0.0000
36	0.0000
37	0.0000
38	0.0000
39	0.0000
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89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

Location: Bedhampton

Level: 7.11

Scale
1:25

Client: Bargate

Dates: 12/05/2025

Logged By
FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
W-1					0.15	6.96		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	1
								Stiff brown slightly silty CLAY with occasional rootlets RIVER TERRACE DEPOSITS	
		0.50	D	3.0kg/cm2	0.80	6.31		Flint cobble	
		0.50	PP						
		0.60	ES						
		1.00	D	3.4kg/cm2 N=13 (2,2/2,3,3,5)	1.20	5.91		Stiff orange brown slightly gravelly CLAY with occasional flint cobbles. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS	2
		1.00	PP						
		1.00	C						
		1.50	D	N=14 (3,4/4,4,3,3)	2.10	5.01		Stiff light brown and off white very gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS	
		2.00	D						
		2.00	C						
		2.50	D	N=4 (1,1/1,1,1,1)	2.71	2.11		Recovered as structureless off white putty like CHALK in a silty gravelly matrix with weak strength chalk clasts WHITE CHALK SUBGROUP	3
		2.90	ES						
		3.00	D						
		3.00	C	N=14 (2,3/3,4,3,4)	4.40	2.71		Recovered as structureless white CHALK in a silty gravel matrix with medium strength chalk clasts WHITE CHALK SUBGROUP	4
3.50	D								
4.00	D								
4.00	C	4.50	2.71	2.11		Recovered as structureless white CHALK in a silty gravel matrix with medium strength chalk clasts WHITE CHALK SUBGROUP	5		
5.00	D								
5.00	D								
		5.00	D		5.00	2.11		Continued on Next Sheet	

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
					Groundwater not encountered



Status
FINAL



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Borehole Log

Borehole No.

WS201

Sheet 2 of 2

Project Name:

Manor Farm, Bedhampton
Phase 2

Project No.
GE22571

Co-ords:

469914E - 106089N

Hole Type	WLS
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
13	0.0000
14	0.0000
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89	0.0000
90	0.0000
91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

Location:

Bedhampton

Level:

7.11

Scale
1:25

Client:

Bargate

Dates:

12/05/2025

Logged By
FG

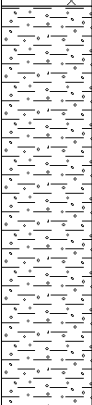
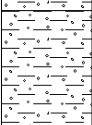
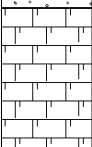
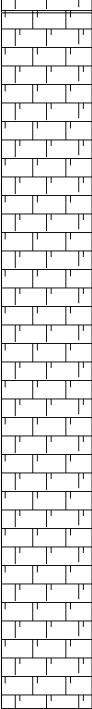
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Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
					Groundwater not encountered



Status
FINAL

 <div> Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net </div>		<div>Borehole Log</div>			Borehole No. WS202 Sheet 1 of 2		
Project Name: Manor Farm, Bedhampton Phase 2		Project No. GE22571		Co-ords: 469833E - 106071N		Hole Type WLS	
Location: Bedhampton				Level: 7.10		Scale 1:25	
Client: Bargate				Dates: 12/05/2025		Logged By FG	

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description				
		Depth (m)	Type	Results								
					0.15	6.95		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	<div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div>			
		0.30	ES							Stiff orange brown slightly silty CLAY with occasional rootlets RIVER TERRACE DEPOSITS		
		0.50	D			0.45	6.65			Stiff orange brown gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS		
		0.50	PP	3.0kg/cm2								
		1.00	D									
				1.00	PP	3.5kg/cm2						
				1.00	C	N=13 (2,2/3,3,3,4)						
				1.50	D							
				1.50	PP	2.9kg/cm2						
							1.80	5.30			Stiff light brown and off white very gravelly CLAY. Gravel is medium to coarse sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS	
				2.00	D							
				2.00	C	N=15 (3,3/3,4,4,4)						
				2.40	ES			2.20		4.90		Recovered as structureless off white CHALK in a very clayey gravelly matrix with weak strength chalk clasts WHITE CHALK SUBGROUP
				2.50	D							
							2.70	4.40			Recovered as structureless off white putty like CHALK in a silty gravel matrix with weak to medium strength chalk clasts WHITE CHALK SUBGROUP	
		3.00	D									
		3.00	C	N=10 (3,3/2,3,2,3)								
		3.50	D									
		4.00	D									
		4.00	C	N=19 (3,3/6,6,3,4)								
		4.50	D									
		5.00	D									
					5.00	2.10		Continued on Next Sheet				

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	 Status FINAL
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		
					Groundwater not encountered	



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Borehole Log

Borehole No.

WS202

Sheet 2 of 2

Project Name:

Manor Farm, Bedhampton
Phase 2

Project No.
GE22571

Co-ords:

469833E - 106071N

Hole Type	WLS
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
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47	0.0000
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62	0.0000
63	0.0000
64	0.0000
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68	0.0000
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71	0.0000
72	0.0000
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83	0.0000
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88	0.0000
89	0.0000
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91	0.0000
92	0.0000
93	0.0000
94	0.0000
95	0.0000
96	0.0000
97	0.0000
98	0.0000
99	0.0000
100	0.0000

Location:

Bedhampton

Level:

7.10

Scale
1:25

Client:

Bargate

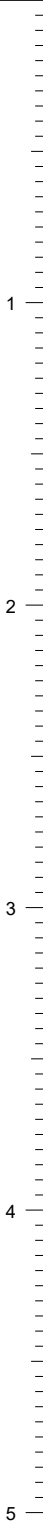
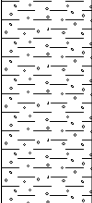
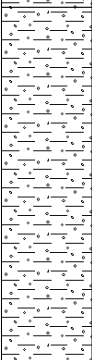
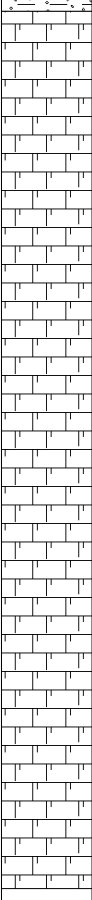
Dates:

12/05/2025

Logged By
FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00	C	N=20 (3,3/6,5,4,5)				End of Borehole at 5.00m

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	 Status FINAL
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		
					Groundwater not encountered	

 <div> Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net </div>		<div>Borehole Log</div>				Borehole No. WS203 Sheet 1 of 2				
Project Name: Manor Farm, Bedhampton Phase 2		Project No. GE22571		Co-ords: 469881E - 106023N		Hole Type WLS				
Location: Bedhampton				Level: 5.96		Scale 1:25				
Client: Bargate				Dates: 12/05/2025		Logged By FG				
Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.15	ES		0.20	5.76		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL		
		0.50 0.50	D PP	2.5kg/cm2				Stiff brown slightly gravelly CLAY with occasional rootlets. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS		
		1.00 1.00 1.00	D PP C	3.5kg/cm2 N=9 (1,2/2,2,2,3)	0.90	5.06		Stiff orange brown slightly gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS		
		1.50 1.50	D PP	2.3kg/cm2						
		2.00 2.00 2.00 2.00	D ES PP C	2.1kg/cm2 N=13 (3,3/2,3,4,4)	2.10	3.86		Recovered as structureless off white putty like CHALK in a silty gravel matrix with weak strength chalk clasts with rare flint cobbles WHITE CHALK SUBGROUP		
		2.50	D							
		3.00 3.00	D C	N=20 (5,5/5,4,5,6)						
		3.50	D							
		4.00 4.00	D C	N=16 (4,3/3,4,4,5)						
		4.50	D							
		5.00	D		5.00	0.96				
		Continued on Next Sheet								5
Dynamic Sampling Run Details		Water Strike Details (mbgl)		Remarks					 Status FINAL	
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	Groundwater struck at 4m bgl					
			4.00	3.80						



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Borehole Log

Borehole No.

WS203

Sheet 2 of 2

Project Name:

Manor Farm, Bedhampton
Phase 2

Project No.
GE22571

Co-ords:

469881E - 106023N

Hole Type	WLS
-----------	-----

Location:

Bedhampton

Level:

5.96

Scale
1:25

Client:

Bargate

Dates:

12/05/2025

Logged By
FG

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		5.00	C	N=13 (2,2/3,3,3,4)				End of Borehole at 5.00m

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			4.00	3.80	Groundwater struck at 4m bgl



Status
FINAL

 <div> Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net </div>				<div>Borehole Log</div>				Borehole No. WS204 Sheet 1 of 2	
Project Name: Manor Farm, Bedhampton Phase 2				Project No. GE22571		Co-ords: 469853E - 105959N		Hole Type WLS	
Location: Bedhampton				Level: 5.31		Scale 1:25			
Client: Bargate				Dates: 12/05/2025		Logged By FG			

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.20	5.11		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	<div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div>
		0.35	ES					Stiff brown slightly silty CLAY with occasional rootlets RIVER TERRACE DEPOSITS	
		0.50	D						
		0.50	PP	2.7kg/cm2					
					0.90	4.41		Stiff orange and brown slightly silty CLAY RIVER TERRACE DEPOSITS	
		1.00	D						
		1.00	PP	2.6kg/cm2 N=10 (2,2/2,2,3,3)					
		1.00	C		1.30	4.01		Stiff orange and brown slightly gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS	
		1.50	D						
		1.50	ES	2.1kg/cm2					
		1.50	PP		1.95	3.36		Stiff light brown and off white gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS	
		2.00	D						
		2.00	PP	1.5kg/cm2 N=7 (1,2/1,2,1,3)					
		2.00	C		2.40	2.91		Recovered as structureless putty like off white CHALK in a very silty gravel matrix with weak strength chalk clasts with rare flint cobbles WHITE CHALK SUBGROUP	
		3.00	D						
3.00	C	N=13 (2,3/3,3,3,4)	3.10	2.21		Recovered as structureless light brown and off white CHALK in a very clayey gravelly matrix with weak strength chalk clasts WHITE CHALK SUBGROUP			
3.50	D								
			3.80	1.51		Recovered as structureless putty like off white CHALK in a very silty gravel matrix with weak strength chalk clasts WHITE CHALK SUBGROUP			
									
									
									
									
									
									
									
									
									
					<				



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Borehole Log

Borehole No.

WS204

Sheet 2 of 2

Project Name:

Manor Farm, Bedhampton
Phase 2

Project No.
GE22571

Co-ords:

469853E - 105959N

Hole Type	WLS
1	0.0000
2	0.0000
3	0.0000
4	0.0000
5	0.0000
6	0.0000
7	0.0000
8	0.0000
9	0.0000
10	0.0000
11	0.0000
12	0.0000
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96	0.0000
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Location:

Bedhampton

Level:

5.31

Scale
1:25

Client:

Bargate

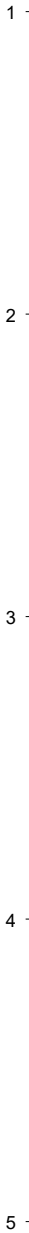
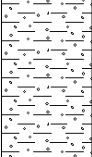
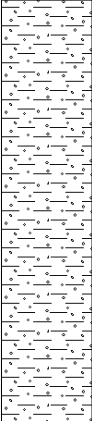
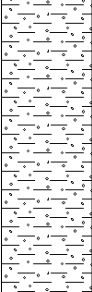
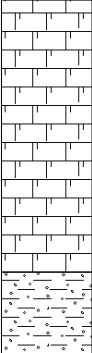
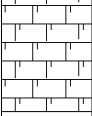
Dates:

12/05/2025

Logged By
FG

[illegible]

 <div> Unit 7, Danworth Farm Hurstpierpoint BN6 9GL www.gesl.net </div>				<div> <div>Borehole Log</div> <div> Borehole No. WS205 Sheet 1 of 2 </div> </div>					
Project Name:		Manor Farm, Bedhampton Phase 2		Project No. GE22571		Co-ords: 469948E - 106019N		Hole Type WLS	
Location: Bedhampton				Level: 6.06		Scale 1:25			
Client: Bargate				Dates: 12/05/2025		Logged By FG			

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.25	5.81		Grass over dark brown slightly silty CLAY with frequent roots and rootlets TOPSOIL	
		0.50 0.50	D PP	3.0kg/cm2	0.80	5.26		Stiff orange brown gravelly CLAY with occasional rootlets. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS	
		1.00 1.00 1.00	D PP C	2.6kg/cm2 N=9 (1,2/2,2,2,3)				Stiff orange brown gravelly CLAY with rare flint cobbles. Gravel is fine to medium sub angular to sub rounded of flint RIVER TERRACE DEPOSITS	
		1.50 1.50	D PP	2.5kg/cm2					
		2.00 2.00 2.00	D PP C	2.2kg/cm2 N=5 (1,1/1,1,2,1)	2.20	3.86		Firm brown slightly gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk RIVER TERRACE DEPOSITS	
		2.50 2.50	D PP	0.9kg/cm2					
		3.00 3.00 3.00	D PP C	0.8kg/cm2 N=4 (1,1/1,1,1,1)	3.20	2.86		Recovered as structureless off white putty like CHALK in a very clayey gravelly matrix with weak strength chalk clasts WHITE CHALK SUBGROUP	
		3.50 3.50	D ES						
		4.00 4.00	D C	N=11 (2,2/2,2,4,3)	4.10	1.96		Soft light brown gravelly CLAY. Gravel is fine to medium sub angular to sub rounded of chalk (Likely backfill) RIVER TERRACE DEPOSITS	
		4.50	D		4.40	1.66		Recovered as structureless putty like off white CHALK in a silty gravel matrix with weak strength chalk clasts. WHITE CHALK SUBGROUP	
		5.00	D		5.00	1.06	Continued on Next Sheet		

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks	 Status FINAL
Depth Top	Depth Base	Diameter	Depth Strike	Rose To		
			2.20	2.00		
					Groundwater struck at 2.2m bgl Borehole partially backfilled to 3m bgl, over drilled to get to 5m.	



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Borehole Log

Borehole No.

WS205

Sheet 2 of 2

Project Name:

Manor Farm, Bedhampton
Phase 2

Project No.
GE22571

Co-ords:

469948E - 106019N

Hole Type	WLS
-----------	-----

Location:

Bedhampton

Level:

6.06

Scale
1:25

Client:

Bargate

Dates:

12/05/2025

Logged By
FG

[illegible]

Dynamic Sampling Run Details			Water Strike Details (mbgl)		Remarks
Depth Top	Depth Base	Diameter	Depth Strike	Rose To	
			2.20	2.00	Groundwater struck at 2.2m bgl Borehole partially backfilled to 3m bgl, over drilled to get to 5m.



 Status
 FINAL

APPENDIX B

Geotechnical Laboratory Results





LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

37318

Borehole/Pit No.

TP202

Site Name

Manor Farm, Bedhampton Phase 2

Sample No.

2

Project No.

GE22571

Client

GESL

Depth Top

1.00

m

Depth Base

-

m

Sample Type

D

Samples received

13/05/2025

Schedules received

19/05/2025

Project Started

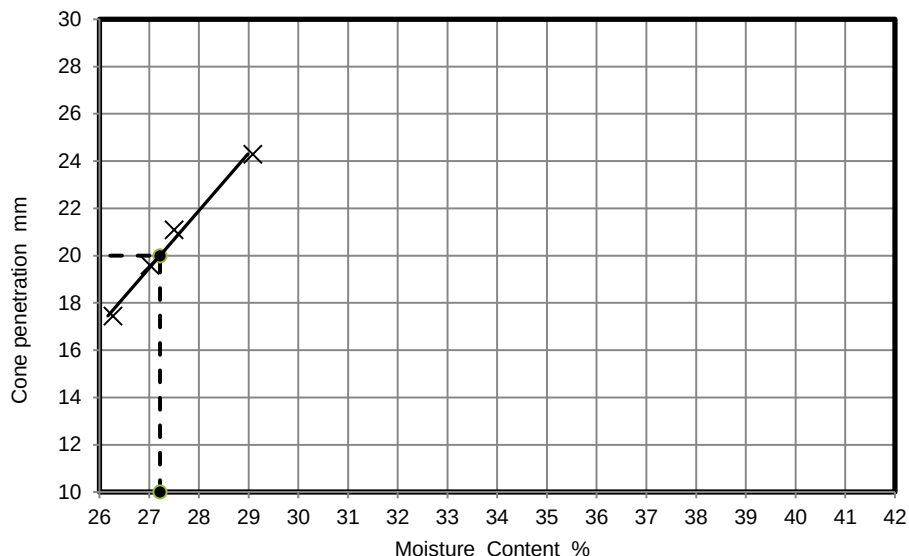
20/05/2025

Date Tested

11/06/2025

Soil Description

Brown and light brown slightly sandy slightly gravelly very silty CLAY
(gravel is fm and angular to sub-angular mainly chalk)



WATER CONTENT

17.3

%

% PASSING 425µm SIEVE

89

%

LIQUID LIMIT

27

%

PLASTIC LIMIT

15

%

PLASTICITY INDEX

12

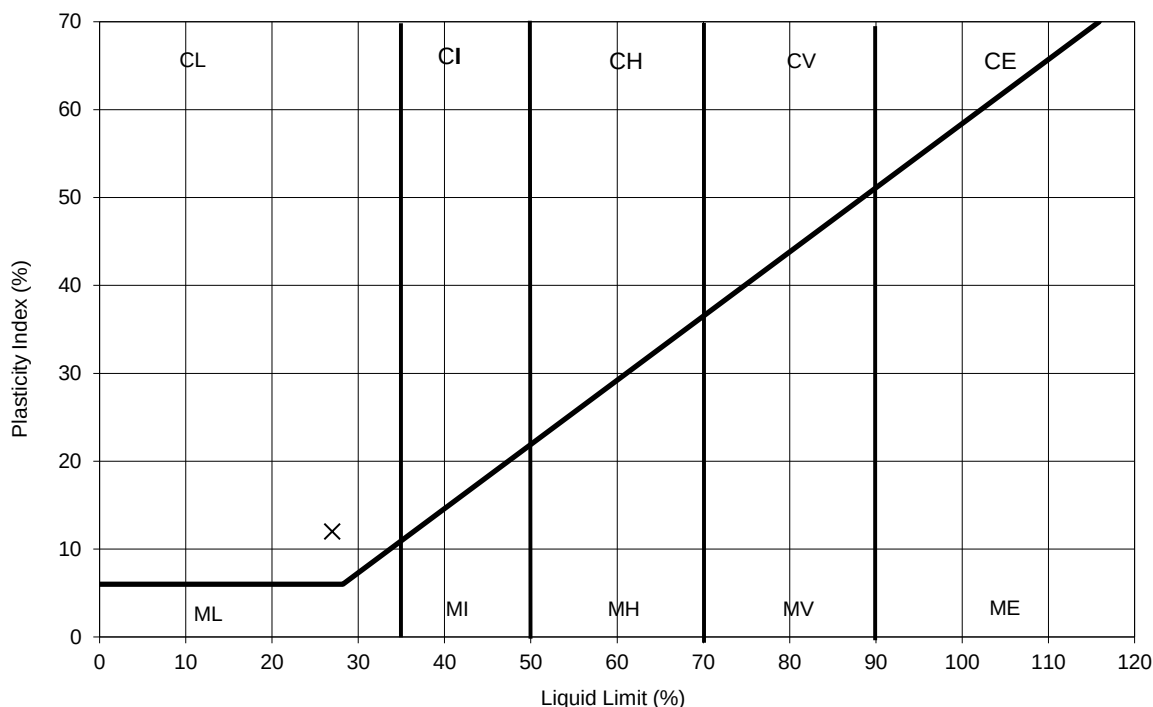
%

Preparation Method

Tested after washing
to remove >425µm

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content

BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Tel: 01923 711 288 Email: James@k4soils.com

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Checked and
Approved

Initials: J.P

Date: 27/06/2025

MSF-5 R2



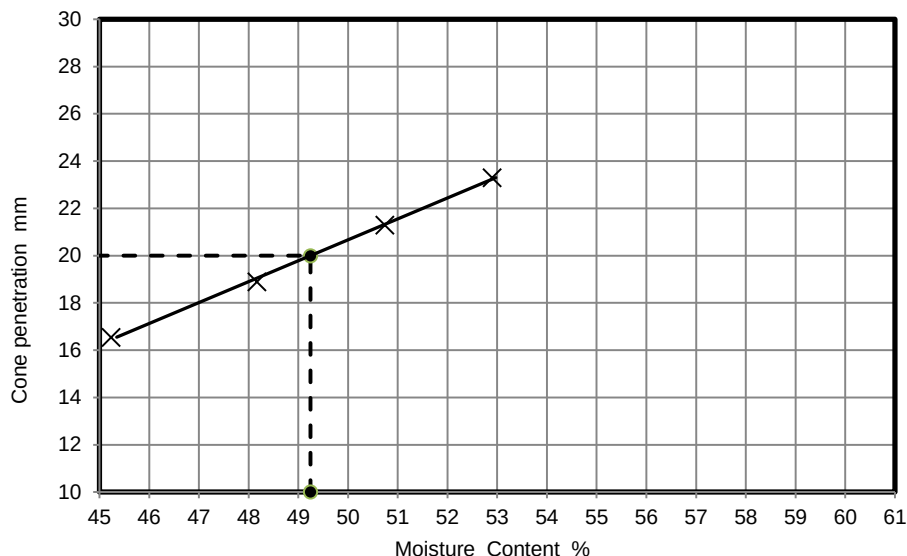
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	TP203
Sample No.	3
Depth Top	1.50 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name: Manor Farm, Bedhampton Phase 2

Project No.: GE22571 Client: GESL

Soil Description: Greyish brown, brownish grey and brown mottled slightly sandy silty CLAY with rare fine sub-angular gravel

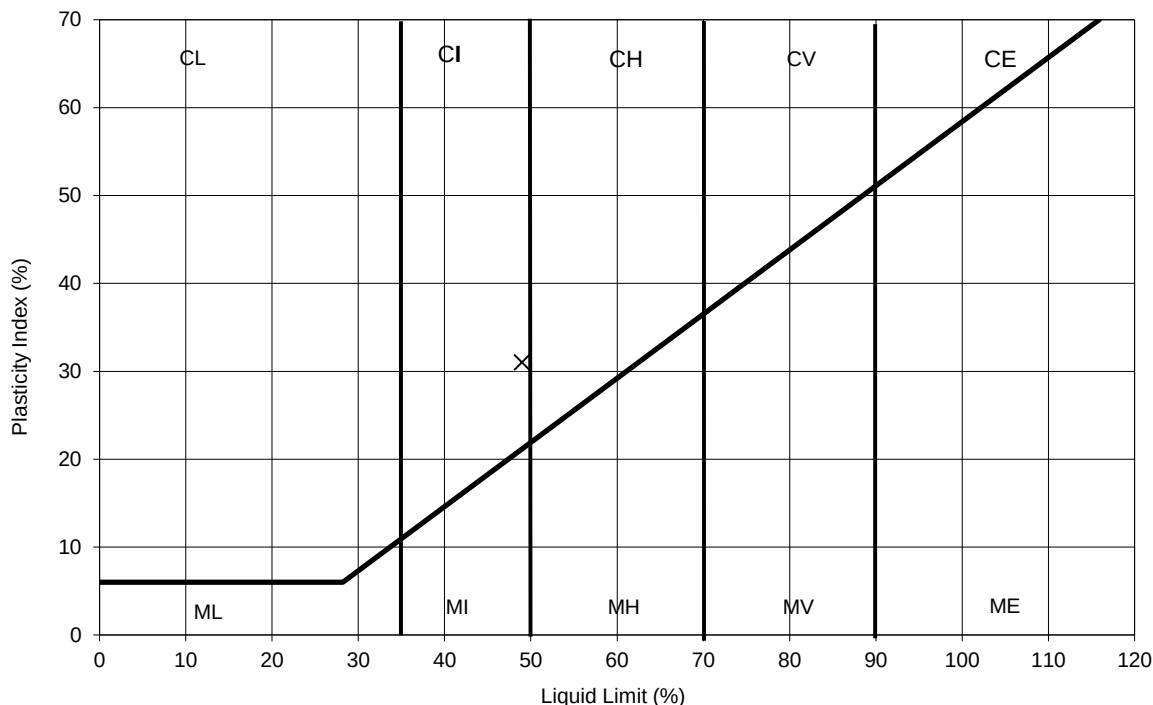


WATER CONTENT	21.0	%
% PASSING 425µm SIEVE	98	%
LIQUID LIMIT	49	%
PLASTIC LIMIT	18	%
PLASTICITY INDEX	31	%

Preparation Method	Tested after >425µm removed by hand
--------------------	-------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Checked and Approved

Initials: J.P

Date: 27/06/2025

MSF-5 R2



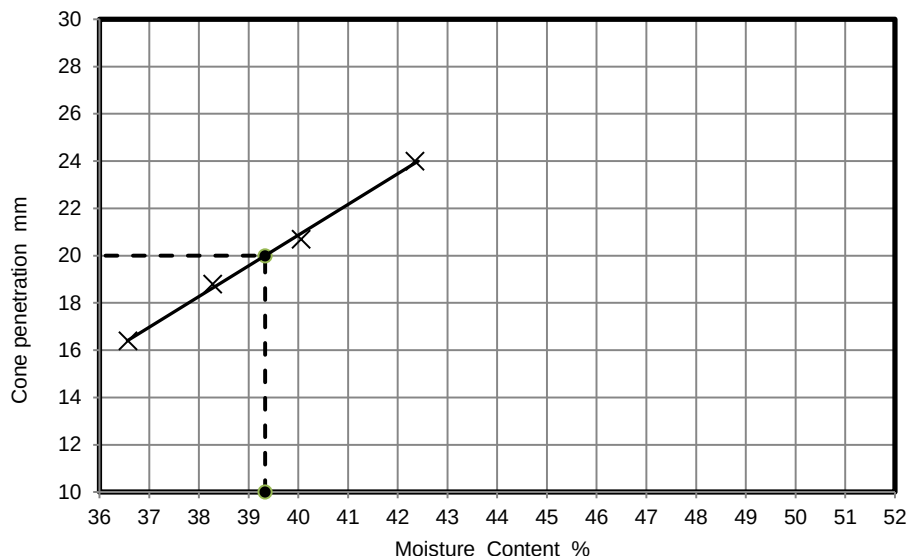
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	TP205
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name: Manor Farm, Bedhampton Phase 2

Project No.: GE22571 Client: GESL

Soil Description: Brown slightly sandy silty CLAY with traces of dark grey flecks and rare fm angular flint gravel

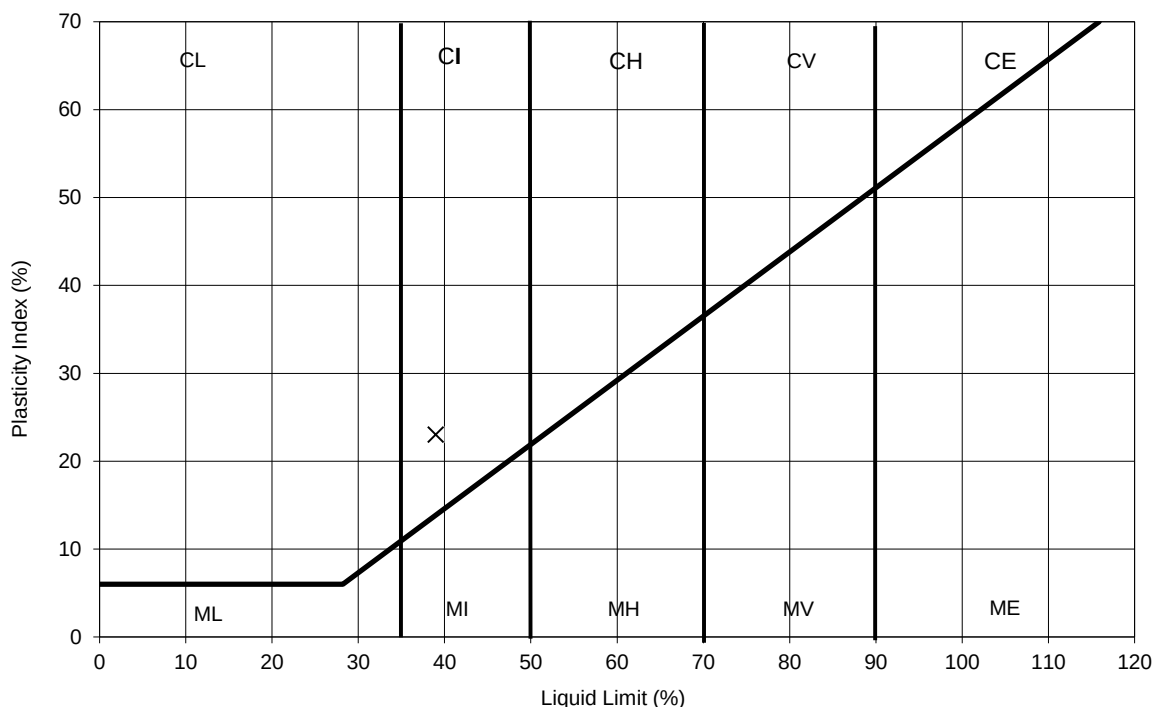


WATER CONTENT	17.7	%
% PASSING 425µm SIEVE	98	%
LIQUID LIMIT	39	%
PLASTIC LIMIT	16	%
PLASTICITY INDEX	23	%

Preparation Method	Tested after >425µm removed by hand
--------------------	-------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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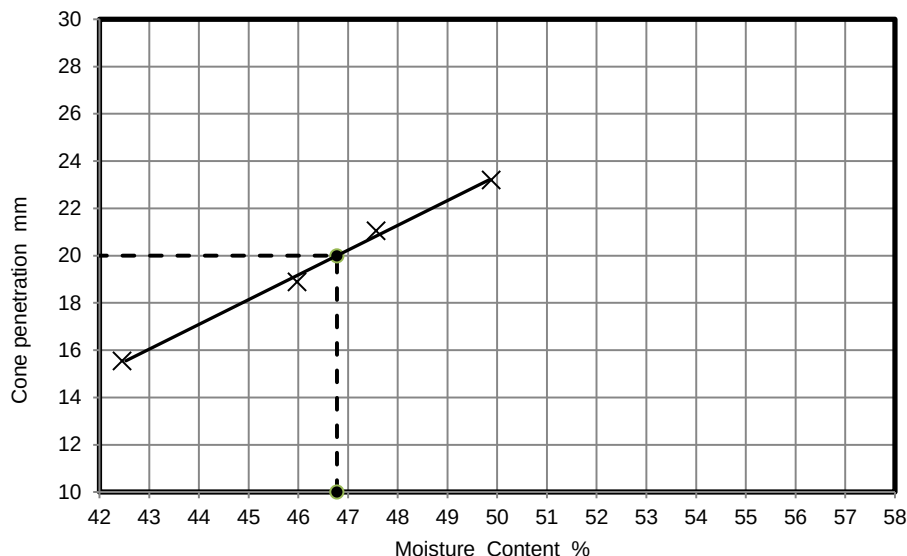


LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	TP206
Sample No.	2
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name	Manor Farm, Bedhampton Phase 2		
Project No.	GE22571	Client	GESL

Soil Description Brown slightly sandy silty CLAY with rare fine sub-angular gravel

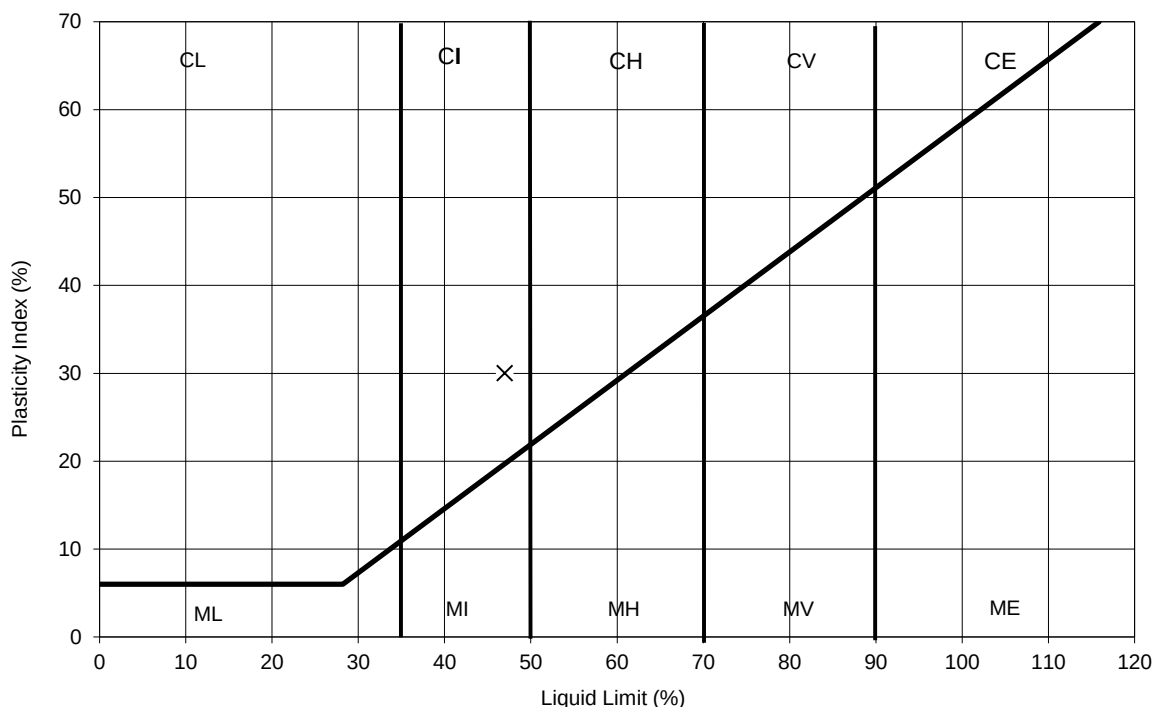


WATER CONTENT	21.4	%
% PASSING 425µm SIEVE	99	%
LIQUID LIMIT	47	%
PLASTIC LIMIT	17	%
PLASTICITY INDEX	30	%

Preparation Method	Tested after >425µm removed by hand
--------------------	-------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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MSF-5 R2



2519



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

37318

Borehole/Pit No.

TP207

Site Name

Manor Farm, Bedhampton Phase 2

Sample No.

2

Project No.

GE22571

Client

GESL

Depth Top

1.00

m

Depth Base

-

m

Sample Type

D

Samples received

13/05/2025

Schedules received

19/05/2025

Project Started

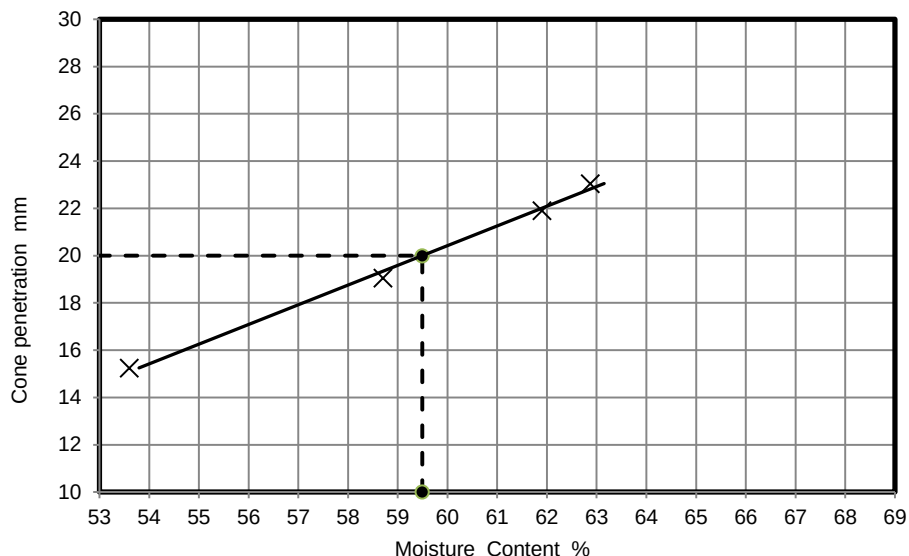
20/05/2025

Date Tested

11/06/2025

Soil Description

Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular)



WATER CONTENT

23.9

%

% PASSING 425µm SIEVE

87

%

LIQUID LIMIT

59

%

PLASTIC LIMIT

18

%

PLASTICITY INDEX

41

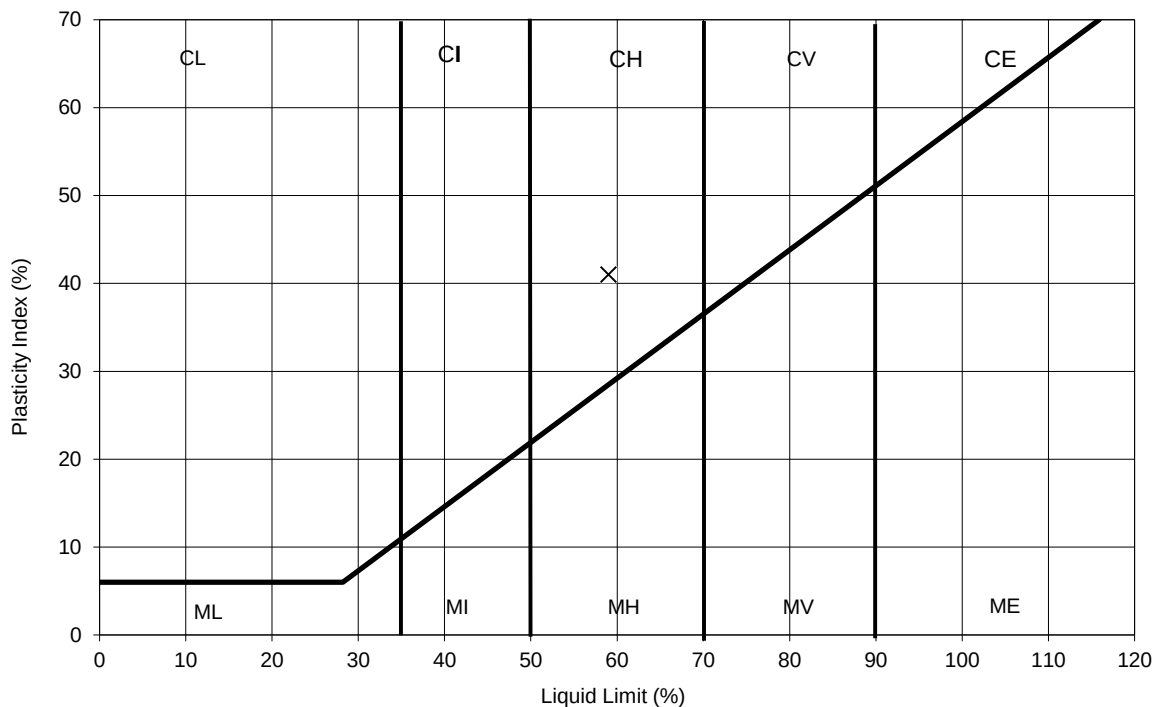
%

Preparation Method

Tested after >425µm removed by hand

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content

BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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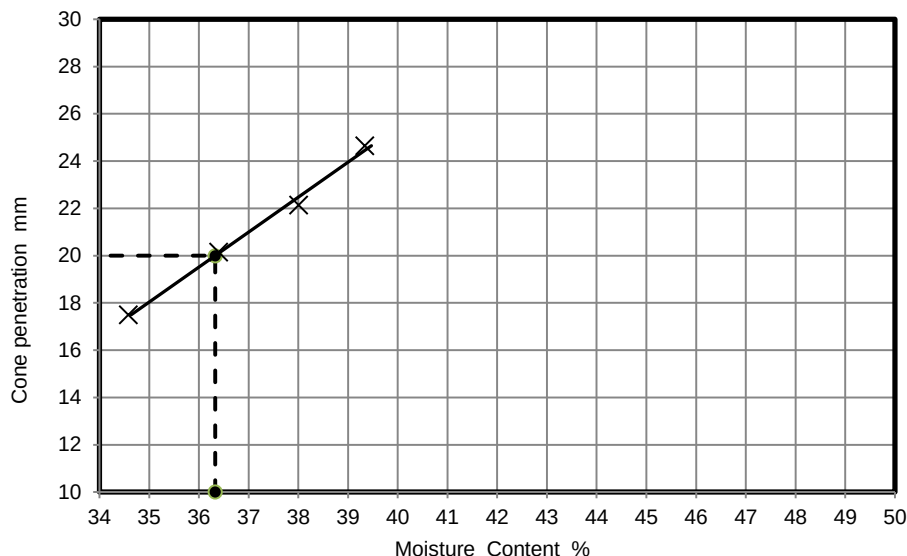
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	TP208
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name: Manor Farm, Bedhampton Phase 2

Project No.: GE22571 Client: GESL

Soil Description: Brown slightly gravelly slightly sandy silty CLAY (gravel is fine and angular to sub-angular)

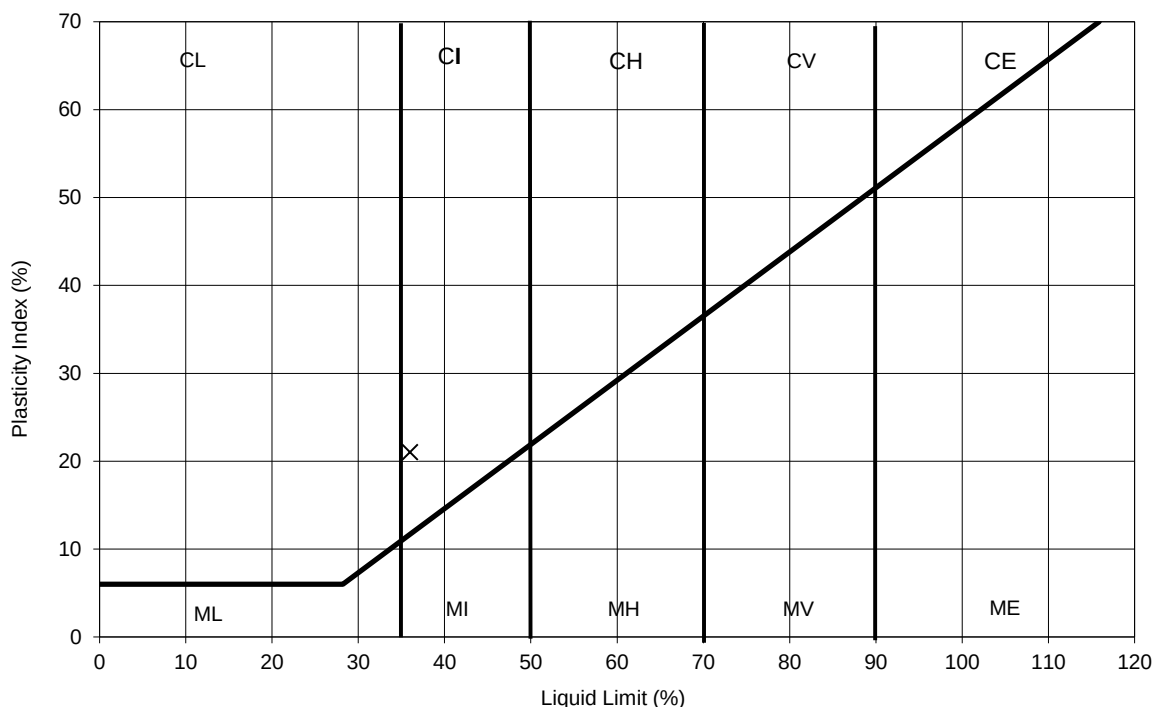


WATER CONTENT	18.8	%
% PASSING 425µm SIEVE	97	%
LIQUID LIMIT	36	%
PLASTIC LIMIT	15	%
PLASTICITY INDEX	21	%

Preparation Method	Tested after >425µm removed by hand
--------------------	-------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 + A2:2022 Liquid and plastic limit

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MSF-5 R2



LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.

37318

Borehole/Pit No.

TP214

Site Name

Manor Farm, Bedhampton Phase 2

Sample No.

2

Project No.

GE22571

Client

GESL

Depth Top

1.00

m

Depth Base

-

m

Sample Type

D

Samples received

13/05/2025

Schedules received

19/05/2025

Project Started

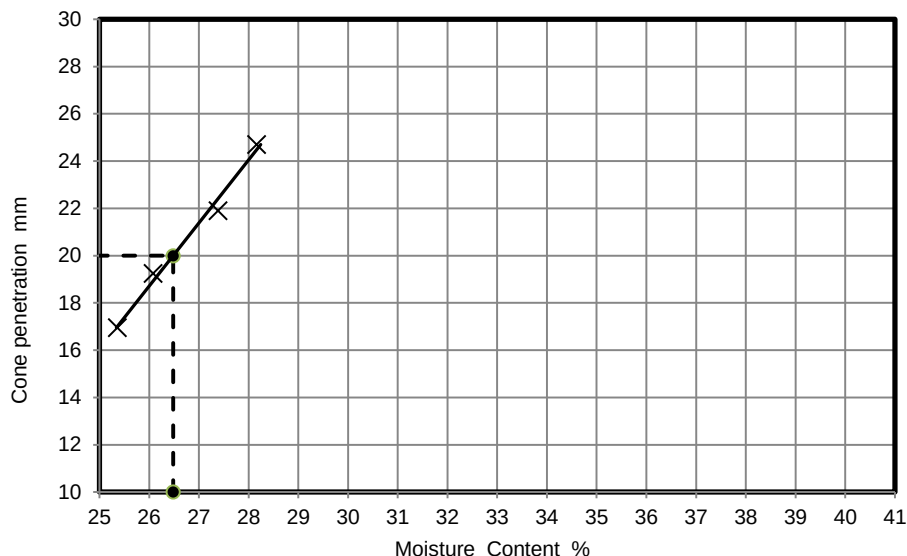
20/05/2025

Date Tested

11/06/2025

Soil Description

Brown and light brown slightly sandy slightly gravelly very silty CLAY
(gravel is fmc and angular to sub-angular mainly chalk)



WATER CONTENT

16.8

%

% PASSING 425µm SIEVE

75

%

LIQUID LIMIT

26

%

PLASTIC LIMIT

15

%

PLASTICITY INDEX

11

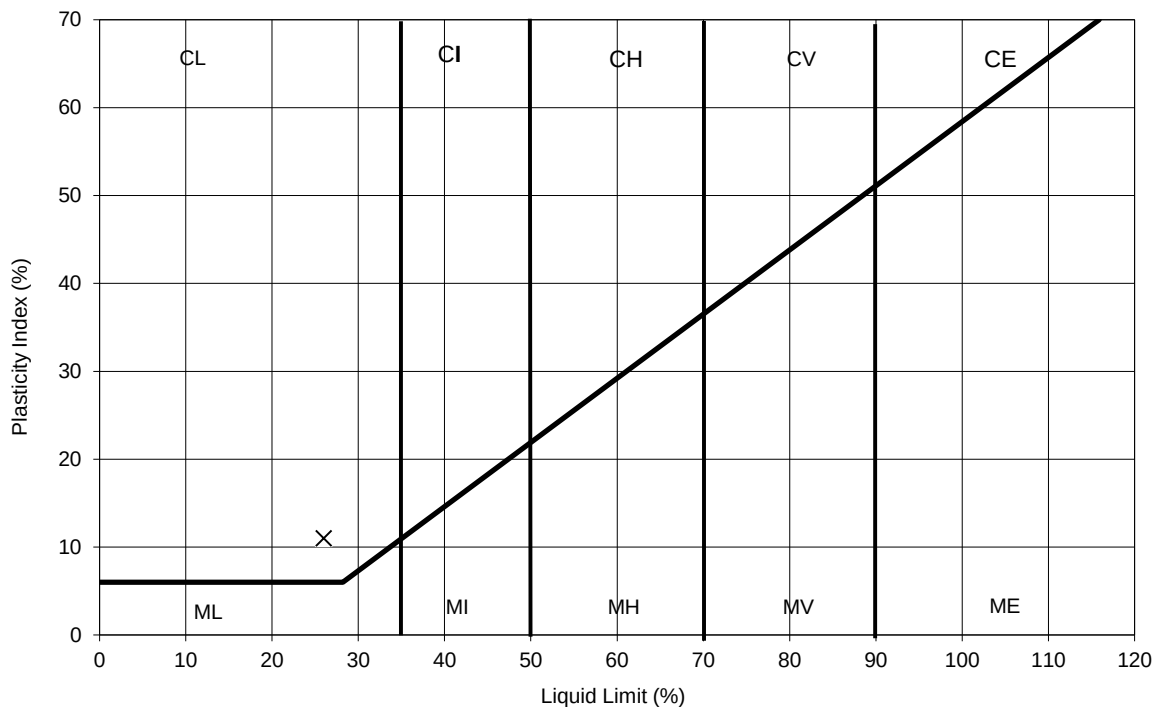
%

Preparation Method

Tested after washing
to remove >425µm

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content

BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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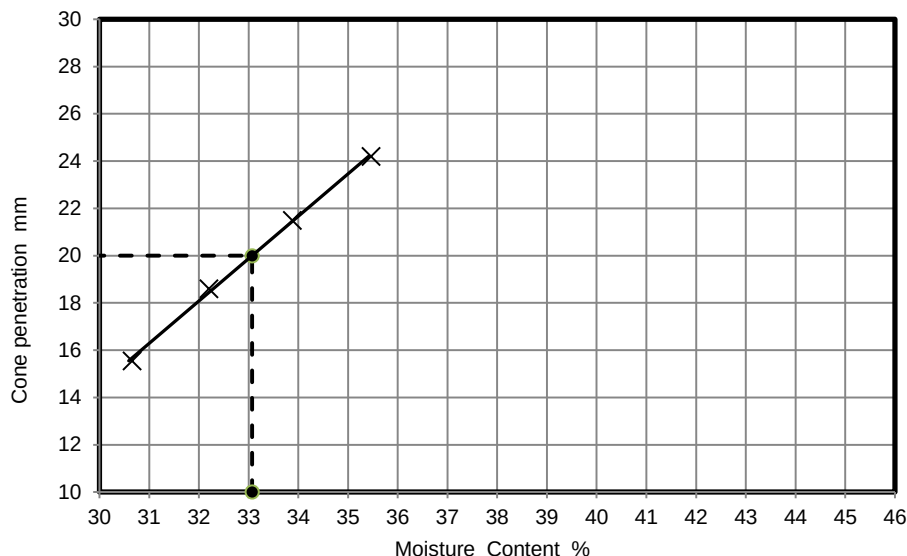
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	TP215
Sample No.	3
Depth Top	1.50 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name: Manor Farm, Bedhampton Phase 2

Project No.: GE22571 Client: GESL

Soil Description: Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-rounded mainly chalk)

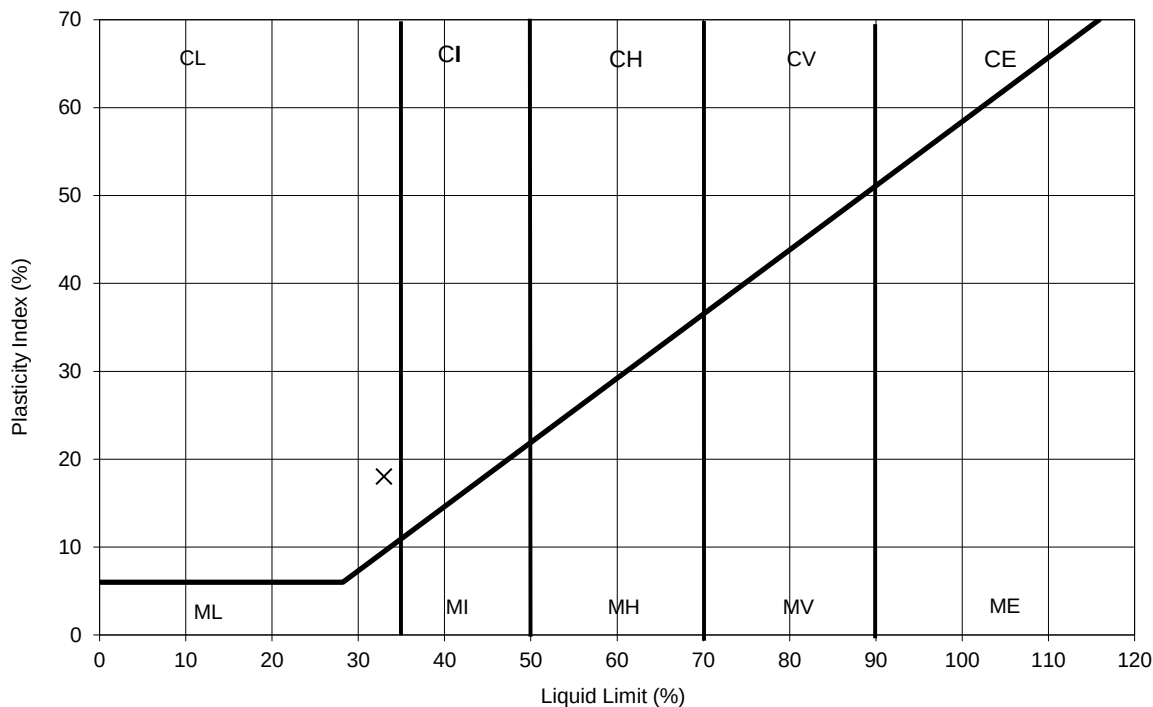


WATER CONTENT	13.6	%
% PASSING 425µm SIEVE	87	%
LIQUID LIMIT	33	%
PLASTIC LIMIT	15	%
PLASTICITY INDEX	18	%

Preparation Method	Tested after washing to remove >425µm
--------------------	---------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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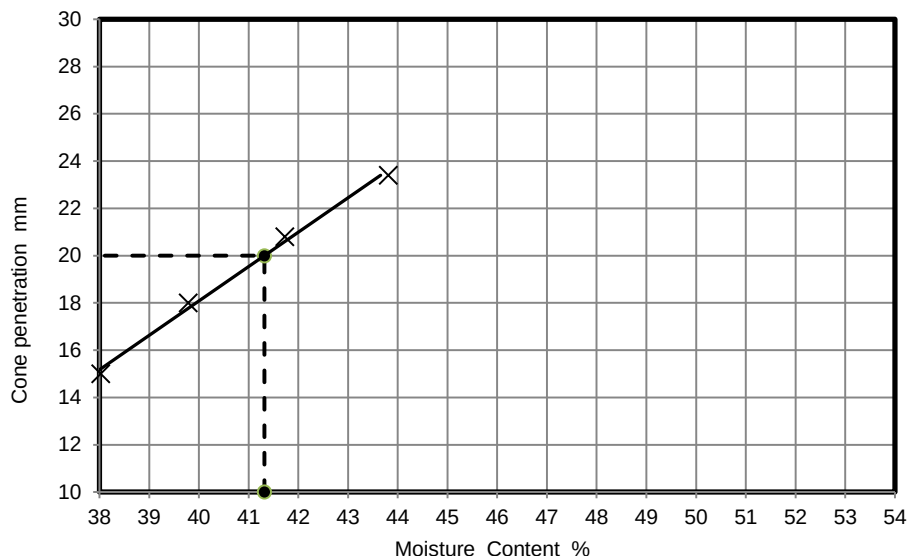
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	WS202
Sample No.	1
Depth Top	0.50 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name Manor Farm, Bedhampton Phase 2

Project No. GE22571 Client GESL

Soil Description Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-rounded mainly chalk)

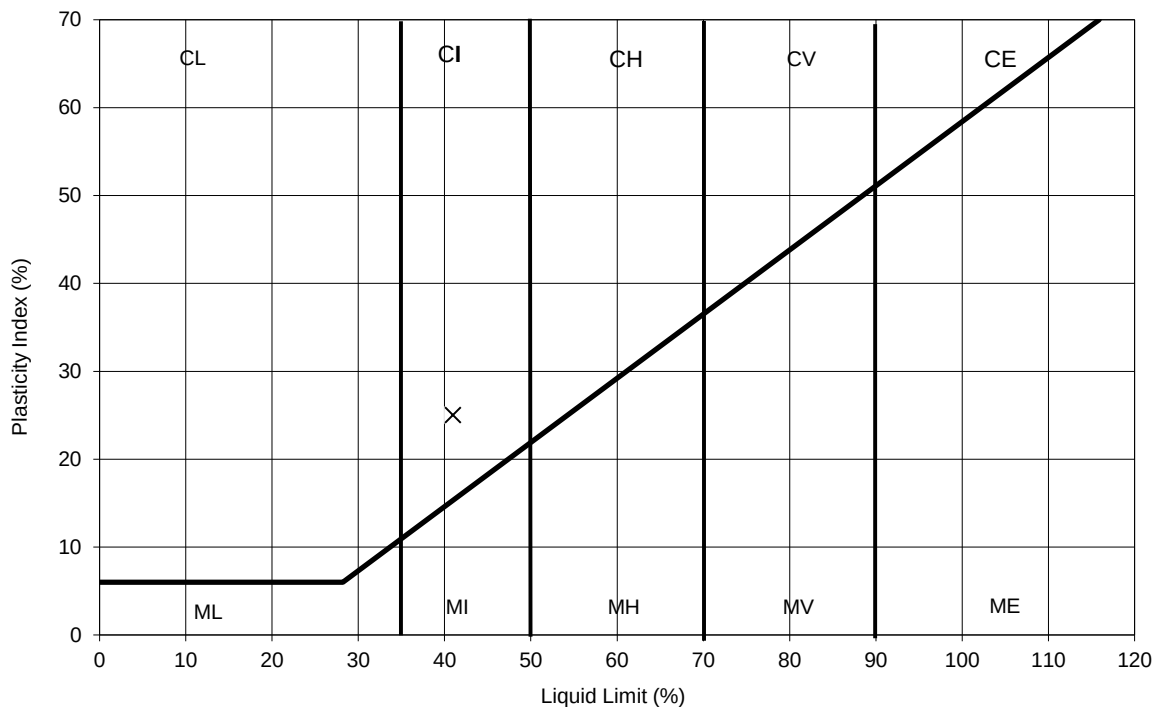


WATER CONTENT	17.5	%
% PASSING 425µm SIEVE	94	%
LIQUID LIMIT	41	%
PLASTIC LIMIT	16	%
PLASTICITY INDEX	25	%

Preparation Method	Tested after washing to remove >425µm
--------------------	---------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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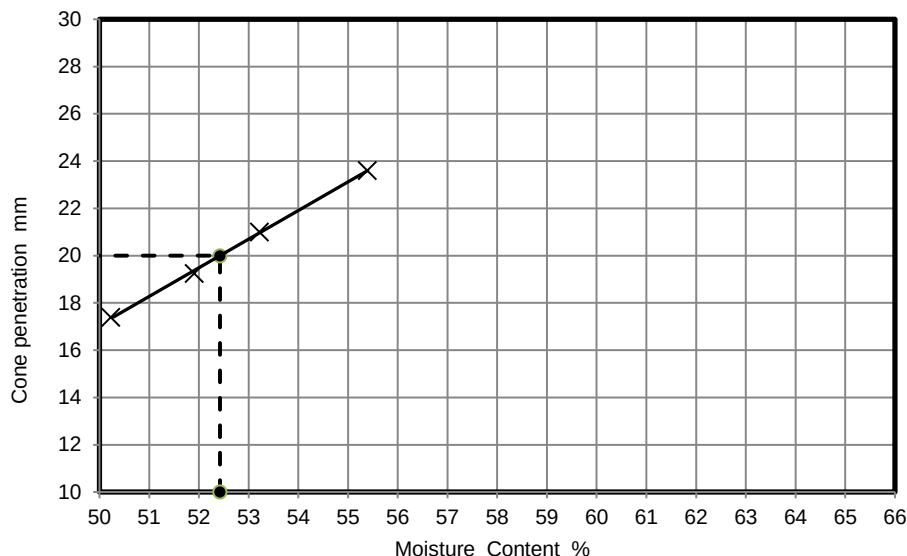
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

Job No.	37318
Borehole/Pit No.	WS203
Sample No.	2
Depth Top	1.00 m
Depth Base	- m
Sample Type	D
Samples received	13/05/2025
Schedules received	19/05/2025
Project Started	20/05/2025
Date Tested	11/06/2025

Site Name: Manor Farm, Bedhampton Phase 2

Project No.: GE22571 Client: GESL

Soil Description: Brown slightly sandy silty CLAY with rare fm angular to sub-angular flint gravel

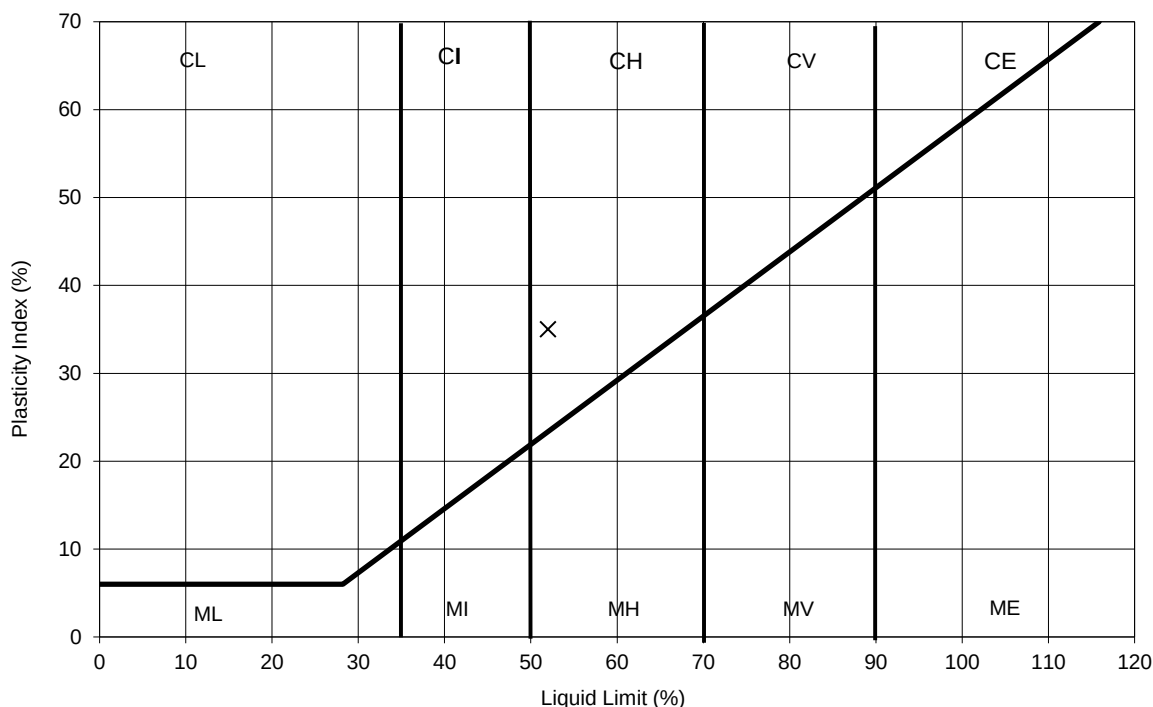


WATER CONTENT	21.7	%
% PASSING 425µm SIEVE	98	%
LIQUID LIMIT	52	%
PLASTIC LIMIT	17	%
PLASTICITY INDEX	35	%

Preparation Method	Tested after >425µm removed by hand
--------------------	-------------------------------------

Remarks

PLASTICITY INDEX



TEST METHODS:

BS EN ISO 17892 Part 1: 2014 + A1:2022 Water Content
BS EN ISO 17892 Part 12: 2018 +A2:2022 Liquid and plastic limit

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MSF-5 R2



Summary of Water Content, Liquid Limit (4 point) and Plastic Limit Results

Job No. 37318	Project Name Manor Farm, Bedhampton Phase 2	Programme	
		Samples received	13/05/2025
		Schedule received	19/05/2025
Project No. GE22571	Client GESL	Project started	20/05/2025
		Testing Started	11/06/2025

Hole No.	Sample				Soil Description	Water Content %	Passing 425µm %	Preparation	LL %	PL %	PI %	Remarks
	Ref	Top m	Base m	Type								
TP202	2	1.00	-	D	Brown and light brown slightly sandy slightly gravelly very silty CLAY (gravel is fm and angular to sub-angular mainly chalk)	17.3	89	Tested after washing to remove >425um	27	15	12	
TP203	3	1.50	-	D	Greyish brown, brownish grey and brown mottled slightly sandy silty CLAY with rare fine sub-angular gravel	21.0	98	Tested after >425um removed by hand	49	18	31	
TP205	1	0.50	-	D	Brown slightly sandy silty CLAY with traces of dark grey flecks and rare fm angular flint gravel	17.7	98	Tested after >425um removed by hand	39	16	23	
TP206	2	1.00	-	D	Brown slightly sandy silty CLAY with rare fine sub-angular gravel	21.4	99	Tested after >425um removed by hand	47	17	30	
TP207	2	1.00	-	D	Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-angular)	23.9	87	Tested after >425um removed by hand	59	18	41	
TP208	1	0.50	-	D	Brown slightly gravelly slightly sandy silty CLAY (gravel is fine and angular to sub-angular)	18.8	97	Tested after >425um removed by hand	36	15	21	
TP214	2	1.00	-	D	Brown and light brown slightly sandy slightly gravelly very silty CLAY (gravel is fmc and angular to sub-angular mainly chalk)	16.8	75	Tested after washing to remove >425um	26	15	11	
TP215	3	1.50	-	D	Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-rounded mainly chalk)	13.6	87	Tested after washing to remove >425um	33	15	18	
WS202	1	0.50	-	D	Brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and angular to sub-rounded mainly chalk)	17.5	94	Tested after washing to remove >425um	41	16	25	
WS203	2	1.00	-	D	Brown slightly sandy silty CLAY with rare fm angular to sub-angular flint gravel	21.7	98	Tested after >425um removed by hand	52	17	35	

80g/300 cone used unless otherwise stated.

 UKAS TESTING	Test Methods: BS EN ISO 17892 Part 1: 2014+A1:2022 Water content Part 12: 2018+A2:2022 Liquid & plastic limit	Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU	Checked and Approved
	These results only apply to the items tested NOTE: The report shall not be reproduced except in full without authority of the laboratory	Tel: 01923 711 288 Email: James@k4soils.com	Initials J.P Date: 27/06/2025
	2519 Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)		



California Bearing Ratio (CBR)

Job Ref	37318		
	Borehole/Pit No.		
Site Name	Manor Farm, Bedhampton Phase 2		
Project No.	GE22571	Client	GESL
Soil Description	Orangish brown slightly sandy slightly gravelly calcareous silty CLAY with chalk fragments (gravel is fmc and sub-angular to sub-rounded including flint)		
Test Method	BS 1377-2:2022		

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Period of soaking 6 days

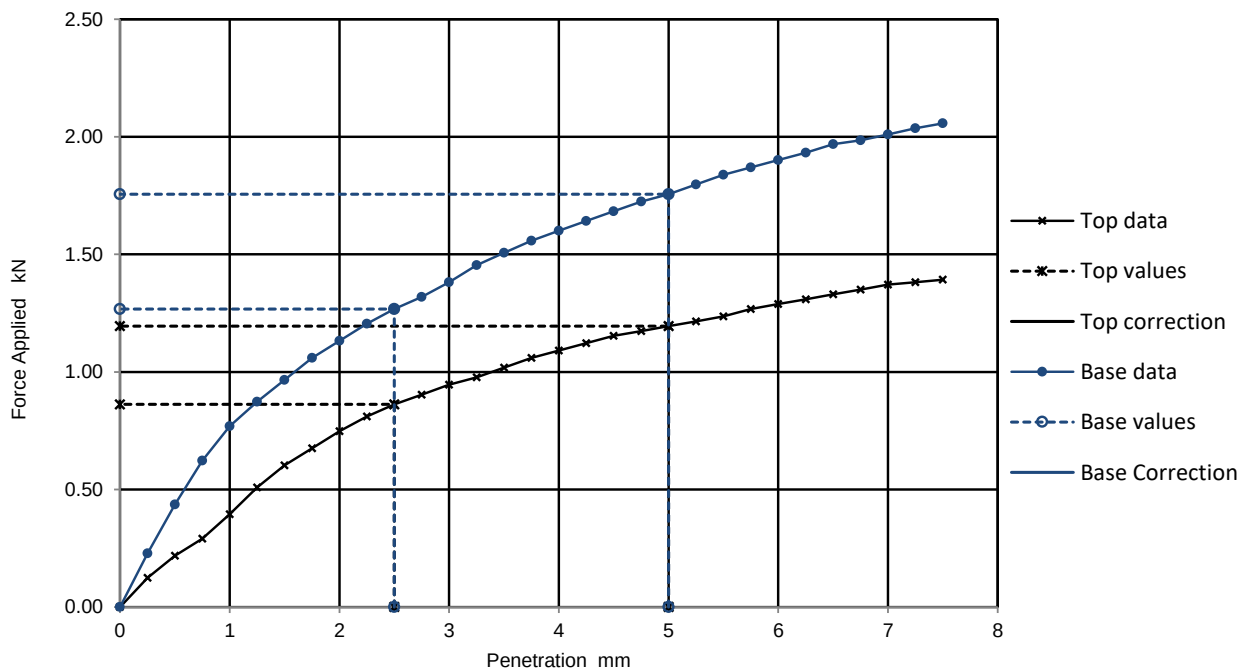
Time to surface 6 days

Amount of swell recorded 0.26 mm

Material retained on 20mm sieve removed 3 %

Initial Specimen details Bulk density 2.03 Mg/m³ Surcharge applied 4 kg
Dry density 1.71 Mg/m³ 2 kPa
Water content 18.9 %

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	6.5	6.0	6.5	N/A
No	9.6	8.8	9.6	

Water Content %
19.9
18.5

Remarks

1



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Watford Herts WD18 9RU

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Checked and Approved

Initials: J.P

Date: 27/06/2025

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R16



California Bearing Ratio (CBR)

Job Ref	37318		
	Borehole/Pit No.		
Site Name	Manor Farm, Bedhampton Phase 2		
Project No.	GE22571	Client	GESL
Soil Description	Brown slightly sandy slightly gravelly silty CLAY with occasional chalk deposits (gravel is fmc and sub-angular)		
Test Method	BS 1377-2:2022		

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Period of soaking 6 days

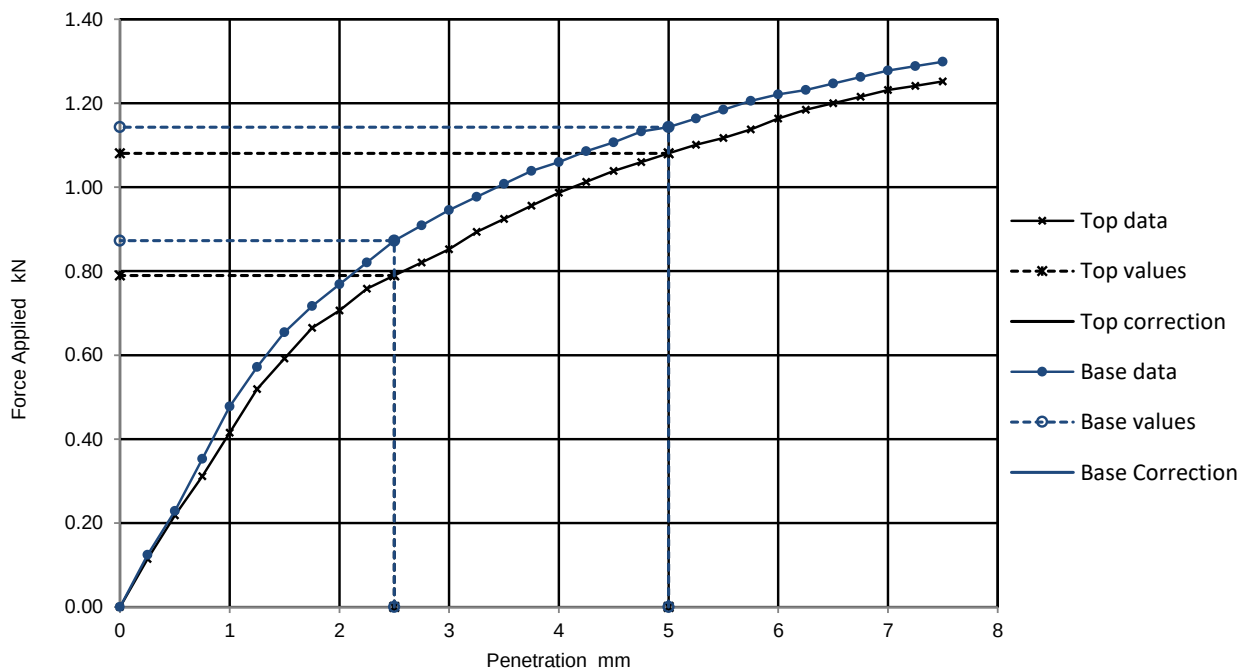
Time to surface 6 days

Amount of swell recorded 0.37 mm

Material retained on 20mm sieve removed 1 %

Initial Specimen details Bulk density 2.02 Mg/m³ Surcharge applied 4 kg
Dry density 1.66 Mg/m³ 2 kPa
Water content 21.7 %

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	6.0	5.4	6.0	6.3
No	6.6	5.7	6.6	

Water Content %
21.7
21.6

Remarks

1



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MSF-5-R16



California Bearing Ratio (CBR)

Job Ref	37318		
	Borehole/Pit No.		
Site Name	Manor Farm, Bedhampton Phase 2		
Project No.	GE22571	Client	GESL
Soil Description	Brown slightly sandy slightly gravelly silty CLAY with occasional chalk deposits (gravel is fmc and sub-angular)		
Test Method	BS 1377-2:2022		

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Period of soaking 6 days

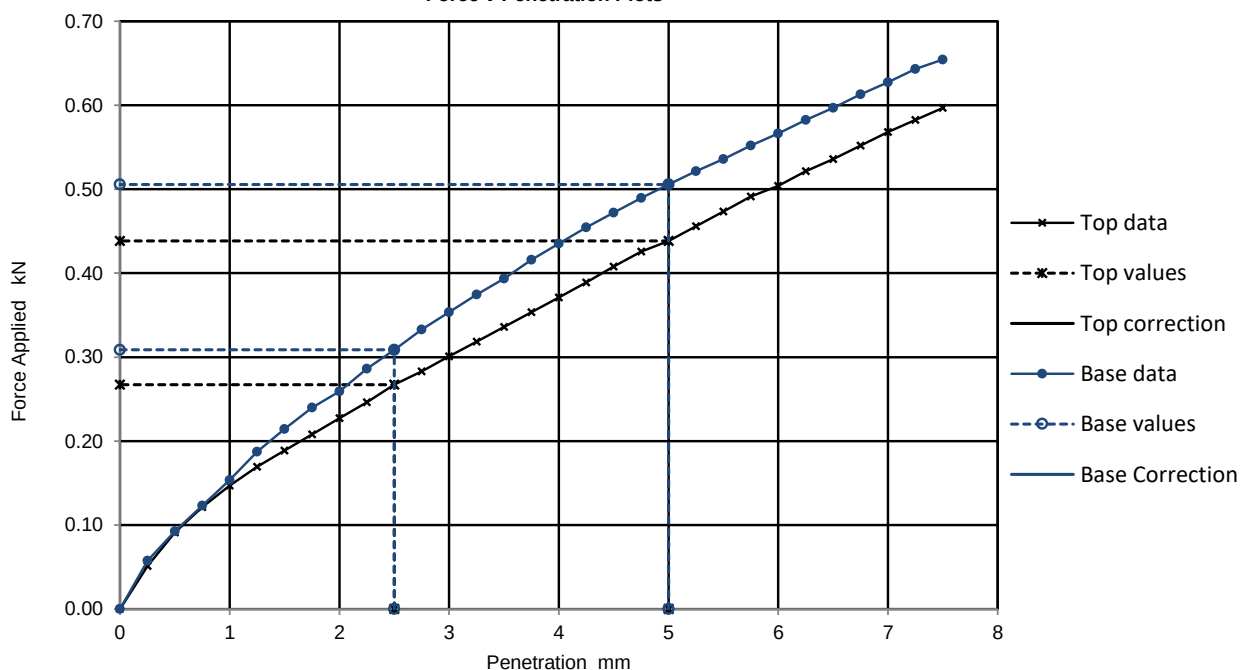
Time to surface 6 days

Amount of swell recorded -0.02 mm

Material retained on 20mm sieve removed 1 %

Initial Specimen details	Bulk density	1.96	Mg/m3	Surcharge applied	4	kg
	Dry density	1.65	Mg/m3		2	kPa
	Water content	18.9	%			

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	2.0	2.2	2.2	2.4
No	2.3	2.5	2.5	

Water Content
%
19.0
18.8

Remarks

1



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Date: 27/06/2025

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MSF-5-R16



California Bearing Ratio (CBR)

Job Ref	37318		
	Borehole/Pit No.		
Site Name	Manor Farm, Bedhampton Phase 2		
Project No.	GE22571	Client	GESL
Soil Description	Brown slightly sandy slightly gravelly silty CLAY with occasional chalk deposits (gravel is fm and sub-angular)		
Test Method	BS 1377-2:2022		

Specimen Preparation

Condition REMOULDED

Details Recompacted with specified standard effort using 2.5kg rammer

Soaking details

Period of soaking 6 days

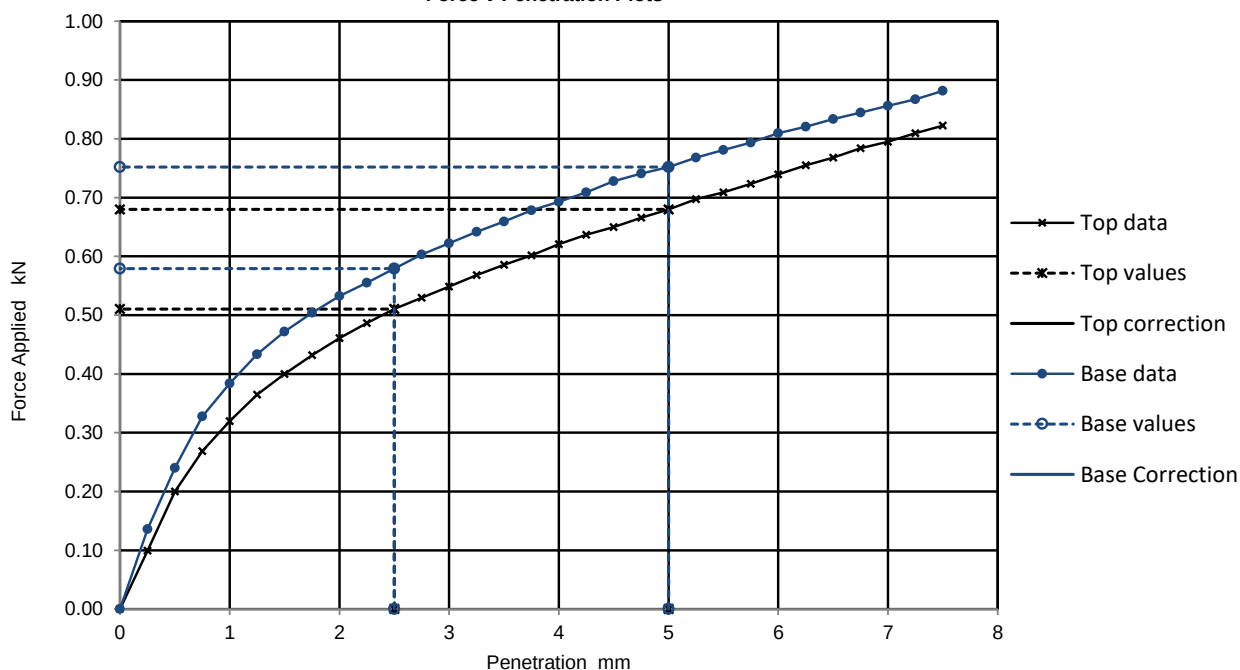
Time to surface 6 days

Amount of swell recorded 0.27 mm

Material retained on 20mm sieve removed 0 %

Initial Specimen details Bulk density 1.95 Mg/m³ Surcharge applied 4 kg
 Dry density 1.63 Mg/m³ 2 kPa
 Water content 20.0 %

Force v Penetration Plots



Results

TOP
BASE

Curve correction applied	CBR Values, %			
	2.5mm	5mm	Highest	Average
No	3.9	3.4	3.9	4.1
No	4.4	3.8	4.4	

Water Content %
20.5
20.1

Remarks

1



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Date: 27/06/2025

2519

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R16

		Saturation Water Content - Summary of Results Tested in accordance with BS1377-2 :2022 & BS EN ISO 17892-2:2014									
Job No. 37318		Project Name Manor Farm, Bedhampton Phase 2						Programme			
								Samples received		13/05/2025	
								Schedule received		19/05/2025	
Project No. GE22571		Client GESL						Project started		20/05/2025	
								Testing Started		16/06/2025	
Hole No.	Sample				Description	SWC %	Water Content %	Bulk Density Mg/m3	Dry Density Mg/m3	Volume cm3	Remarks - Sample size complies with BS (Yes/No)
	Ref	Top m	Base m	Type							
TP205	4	2.00	-	D	Off white slightly putty CHALK with fm intact chalk fragments	25.8	24.5	1.98	1.59	31	No
TP210	5	2.50	-	D	Off white slightly putty CHALK with fm intact chalk fragments	24.0	23.4	2.02	1.64	67	No
		Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU Tel: 01923 711 288 Email: James@k4soils.com								Checked and Approved Initials J.P Date: 27/06/2025	
2519		Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)								MSF-5-R18	

These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory

APPENDIX C

Geochemical Laboratory Results



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Analytical Report Number : 25-024224

Project / Site name:	Bedhampton Phase 2	Samples received on:	12/05/2025
Your job number:	GE22571	Samples instructed on / Analysis started on:	12/05/2025
Your order number:	PO 8658	Analysis completed by:	19/05/2025
Report Issue Number:	1	Report issued on:	19/05/2025
Samples Analysed:	14 soil samples		



Signed: _____

Claire Bancroft
Customer Service and Accounts Support
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

Analytical Report Number: 25-024224
Project / Site name: Bedhampton Phase 2
Your Order No: PO 8658

Lab Sample Number	542580	542581	542582	542583	542584
Sample Reference	TP201	TP202	TP203	TP203	TP205
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.8	0.3	0.2	1	0.4
Date Sampled	08/05/2025	08/05/2025	08/05/2025	08/05/2025	08/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	15	12	14	14
Total mass of sample received	kg	0.1	NONE	0.5	0.6	0.6	0.5	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	-	MJN	MJN	-	MJN
Analysis completed	N/A	N/A	N/A	-	16/05/2025	16/05/2025	-	16/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.8	8	7.8	7.9	7.8
Total Cyanide	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	440	440	-	360
Total Sulphate as SO ₄	%	0.005	MCERTS	0.016	-	-	0.039	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	6.5	9.1	8	12	9.8
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	3.26	4.56	4	5.98	4.92
Sulphide	mg/kg	1	MCERTS	-	< 1.0	2.3	-	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	1.5	3.6	-	4
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1.2	-	-	2.4	-
Elemental Sulphur	mg/kg	5	MCERTS	-	< 5.0	< 5.0	-	< 5.0
Total Sulphur	mg/kg	50	MCERTS	75	-	-	130	-
Total Sulphur	%	0.005	MCERTS	0.007	-	-	0.013	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.4	0.6	-	0.4
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	-	-	< 2.0	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	-	-	< 5.0	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05	< 0.05	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05	< 0.05	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	< 0.05	-	< 0.05

Total PAH

Analytical Report Number: 25-024224
Project / Site name: Bedhampton Phase 2
Your Order No: PO 8658

Lab Sample Number	542580	542581	542582	542583	542584
Sample Reference	TP201	TP202	TP203	TP203	TP205
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.8	0.3	0.2	1	0.4
Date Sampled	08/05/2025	08/05/2025	08/05/2025	08/05/2025	08/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	< 0.80

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	9	8.1	-	9.7
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	48	50	-	51
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	0.86	0.64	-	0.83
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.8	0.9	-	1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.7	0.3	-	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	< 1.8	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	26	23	-	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	10	12	-	9.5
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	11	17	-	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	19	14	-	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	1.3	< 1.0	-	1.6
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	41	37	-	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	44	49	-	50

Magnesium (leachate equivalent)	mg/l	2.5	NONE	2.8	-	-	< 2.5	-
Magnesium (water soluble)	mg/kg	5	NONE	5.5	-	-	< 5.0	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS 1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS 1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS 1D_AL}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU 1D_AL}	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU 1D_AL}	mg/kg	2	MCERTS	-	< 2.0	< 2.0	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU 1D_AL}	mg/kg	8	MCERTS	-	< 8.0	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU 1D_AL}	mg/kg	8	MCERTS	-	< 8.0	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU 1D_AL}	mg/kg	8.4	NONE	-	< 8.4	< 8.4	-	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS 1D_AL}	mg/kg	10	NONE	-	< 10	< 10	-	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS 1D_AL}	mg/kg	10	NONE	-	< 10	< 10	-	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS 1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS 1D_AR}	mg/kg	0.01	MCERTS	-	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS 1D_AR}	mg/kg	0.02	MCERTS	-	< 0.020	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU 1D_AR}	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU 1D_AR}	mg/kg	2	MCERTS	-	< 2.0	< 2.0	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU 1D_AR}	mg/kg	10	MCERTS	-	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU 1D_AR}	mg/kg	10	MCERTS	-	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU 1D_AR}	mg/kg	8.4	NONE	-	< 8.4	< 8.4	-	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS 1D_AR}	mg/kg	10	NONE	-	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS 1D_AR}	mg/kg	10	NONE	-	< 10	< 10	-	< 10

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-	< 5.0
Benzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0	< 8.0	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	< 5.0	-	< 5.0

Analytical Report Number: 25-024224
 Project / Site name: Bedhampton Phase 2
 Your Order No: PO 8658

Lab Sample Number				542580	542581	542582	542583	542584
Sample Reference				TP201	TP202	TP203	TP203	TP205
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.8	0.3	0.2	1	0.4
Date Sampled				08/05/2025	08/05/2025	08/05/2025	08/05/2025	08/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

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

Analytical Report Number: 25-024224
Project / Site name: Bedhampton Phase 2
Your Order No: PO 8658

Lab Sample Number	542585	542586	542587	542588	542589
Sample Reference	TP206	TP206	TP207	TP208	TP211
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.15	1.2	0.5	0.2	0.3
Date Sampled	08/05/2025	08/05/2025	08/05/2025	08/05/2025	09/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	17	14	13	14
Total mass of sample received	kg	0.1	NONE	0.6	0.5	0.6	0.7	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	-	-	MJN	MJN
Analysis completed	N/A	N/A	N/A	17/05/2025	-	-	17/05/2025	17/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	7.7	7.8	7.5	7.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	430	-	-	480	420
Total Sulphate as SO ₄	%	0.005	MCERTS	-	0.026	0.031	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	11	12	10	13	16
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.71	6.18	5.05	6.58	7.91
Sulphide	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.4	-	-	3.2	5.3
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	0.7	2.7	-	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	130	150	-	-
Total Sulphur	%	0.005	MCERTS	-	0.013	0.015	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	-	-	0.6	0.5
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	< 2.0	< 2.0	-	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	-	< 5.0	< 5.0	-	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	< 0.05

Total PAH



Analytical Report Number: 25-024224
Project / Site name: Bedhampton Phase 2
Your Order No: PO 8658

Lab Sample Number				542585	542586	542587	542588	542589
Sample Reference				TP206	TP206	TP207	TP208	TP211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.15	1.2	0.5	0.2	0.3
Date Sampled				08/05/2025	08/05/2025	08/05/2025	08/05/2025	09/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	-	< 0.80	< 0.80

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.7	-	-	7.4	11
Barium (aqua regia extractable)	mg/kg	1	MCERTS	47	-	-	55	56
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.66	-	-	0.71	0.92
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	-	-	0.8	1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.2	-	-	0.3	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	-	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	-	-	25	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	-	-	12	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	-	-	14	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	-	-	14	20
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1	-	-	< 1.0	1.1
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	38	-	-	39	54
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	48	-	-	55	57

Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	2.9	2.7	-	-
Magnesium (water soluble)	mg/kg	5	NONE	-	5.8	5.3	-	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	-	-	< 8.4	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	-	-	< 10	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	-	-	< 10	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	-	< 0.010	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	-	-	< 0.020	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	-	-	< 10	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	-	-	< 10	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	-	-	< 8.4	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	-	-	< 10	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	-	-	< 10	< 10

VOCS

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	-	< 8.0	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	-	< 5.0	< 5.0

Analytical Report Number: 25-024224
 Project / Site name: Bedhampton Phase 2
 Your Order No: PO 8658

Lab Sample Number				542585	542586	542587	542588	542589
Sample Reference				TP206	TP206	TP207	TP208	TP211
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.15	1.2	0.5	0.2	0.3
Date Sampled				08/05/2025	08/05/2025	08/05/2025	08/05/2025	09/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					

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

Analytical Report Number: 25-024224
Project / Site name: Bedhampton Phase 2
Your Order No: PO 8658

Lab Sample Number	542590	542591	542592	542593
Sample Reference	TP212	TP214	TP214	TP216
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A
Depth (m)	0.3	0.25	1.5	0.8
Date Sampled	09/05/2025	09/05/2025	09/05/2025	09/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	11	14	13
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.5	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	MJN	-	MJN
Analysis completed	N/A	N/A	N/A	17/05/2025	17/05/2025	-	17/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	7.7	8.4	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	430	450	-	390
Total Sulphate as SO ₄	%	0.005	MCERTS	-	-	0.052	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	10	8	12	23
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.02	4	5.88	11.6
Sulphide	mg/kg	1	MCERTS	1.7	2.3	-	17
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1.2	1.3	-	7.6
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	-	1.2	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	-	180	-
Total Sulphur	%	0.005	MCERTS	-	-	0.018	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.6	0.6	-	0.6
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	-	< 2.0	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	-	-	< 5.0	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.08
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.56
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.69
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.51
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.58
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	-	0.7
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	-	0.31
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.68
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.33
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	0.34

Total PAH

Analytical Report Number: 25-024224
Project / Site name: Bedhampton Phase 2
Your Order No: PO 8658

Lab Sample Number	542590			542591	542592	542593
Sample Reference	TP212			TP214	TP214	TP216
Sample Number	None Supplied			None Supplied	None Supplied	None Supplied
Water Matrix	N/A			N/A	N/A	N/A
Depth (m)	0.3			0.25	1.5	0.8
Date Sampled	09/05/2025			09/05/2025	09/05/2025	09/05/2025
Time Taken	None Supplied			None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status			
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	-

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.2	8.6	-	6.8
Barium (aqua regia extractable)	mg/kg	1	MCERTS	52	52	-	55
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.62	0.72	-	0.64
Boron (water soluble)	mg/kg	0.2	MCERTS	0.7	0.7	-	0.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.3	-	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	22	25	-	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	12	-	10
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	16	-	13
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	16	-	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.2	-	1.2
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	35	39	-	35
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	51	50	-	54

Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	-	2.7	-
Magnesium (water soluble)	mg/kg	5	NONE	-	-	5.4	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS 1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS 1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS 1D_AL}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU 1D_AL}	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU 1D_AL}	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU 1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU 1D_AL}	mg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU 1D_AL}	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS 1D_AL}	mg/kg	10	NONE	< 10	< 10	-	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS 1D_AL}	mg/kg	10	NONE	< 10	< 10	-	< 10

TPHCWG - Aromatic >EC5 - EC7 _{HS 1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS 1D_AR}	mg/kg	0.01	MCERTS	< 0.010	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS 1D_AR}	mg/kg	0.02	MCERTS	< 0.020	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU 1D_AR}	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU 1D_AR}	mg/kg	2	MCERTS	< 2.0	< 2.0	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU 1D_AR}	mg/kg	10	MCERTS	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU 1D_AR}	mg/kg	10	MCERTS	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU 1D_AR}	mg/kg	8.4	NONE	< 8.4	< 8.4	-	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS 1D_AR}	mg/kg	10	NONE	< 10	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS 1D_AR}	mg/kg	10	NONE	< 10	< 10	-	< 10

VOCS

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	< 8.0	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	< 5.0	-	< 5.0

Analytical Report Number: 25-024224
 Project / Site name: Bedhampton Phase 2
 Your Order No: PO 8658

Lab Sample Number				542590	542591	542592	542593
Sample Reference				TP212	TP214	TP214	TP216
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A
Depth (m)				0.3	0.25	1.5	0.8
Date Sampled				09/05/2025	09/05/2025	09/05/2025	09/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status				

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

Analytical Report Number : 25-024224
Project / Site name: Bedhampton Phase 2

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
542580	TP201	None Supplied	0.8	Brown clay and sand with gravel
542581	TP202	None Supplied	0.3	Brown clay and sand with gravel and chalk
542582	TP203	None Supplied	0.2	Brown clay and loam with gravel and vegetation
542583	TP203	None Supplied	1	Brown clay and loam with gravel and vegetation
542584	TP205	None Supplied	0.4	Brown clay and loam with gravel and vegetation
542585	TP206	None Supplied	0.15	Brown clay and loam with gravel
542586	TP206	None Supplied	1.2	Brown clay and sand with gravel
542587	TP207	None Supplied	0.5	Brown clay and sand with gravel
542588	TP208	None Supplied	0.2	Brown clay and sand with gravel and vegetation
542589	TP211	None Supplied	0.3	Brown clay and sand with gravel
542590	TP212	None Supplied	0.3	Brown clay and sand with gravel and vegetation
542591	TP214	None Supplied	0.25	Brown clay and sand with gravel and vegetation
542592	TP214	None Supplied	1.5	Brown clay and sand with gravel and chalk
542593	TP216	None Supplied	0.8	Brown clay and sand with gravel and vegetation

Analytical Report Number : 25-024224
Project / Site name: Bedhampton Phase 2

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS

Analytical Report Number : 25-024224
Project / Site name: Bedhampton Phase 2

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)

Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

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

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

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

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

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

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

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Analytical Report Number : 25-024807

Project / Site name:	Bedhampton Phase 2	Samples received on:	14/05/2025
Your job number:	GE22571	Samples instructed on / Analysis started on:	14/05/2025
Your order number:	PO-8658	Analysis completed by:	22/05/2025
Report Issue Number:	1	Report issued on:	22/05/2025
Samples Analysed:	8 soil samples		



Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

Analytical Report Number: 25-024807
Project / Site name: Bedhampton Phase 2
Your Order No: PO-8658

Lab Sample Number	545794	545795	545796	545797	545798
Sample Reference	WS201	WS201	WS202	WS202	WS203
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.6	2.9	0.3	2.4	0.15
Date Sampled	12/05/2025	12/05/2025	12/05/2025	12/05/2025	12/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	36.1	< 0.1
Moisture Content	%	0.01	NONE	13	32	13	17	8.4
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.7	0.6	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MUA	-	MUA	-	MUA
Analysis completed	N/A	N/A	N/A	20/05/2025	-	20/05/2025	-	20/05/2025

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	7.6	8.1	8	8.7	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	260	-	260	-	380
Total Sulphate as SO ₄	%	0.005	MCERTS	-	0.051	-	0.045	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	21	29	18	32	9
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	10.5	14.4	8.96	16	4.49
Sulphide	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	1.4	-	1.2	-	2.2
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	-	2.4	-	1.2	-
Elemental Sulphur	mg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Total Sulphur	mg/kg	50	MCERTS	-	190	-	140	-
Total Sulphur	%	0.005	MCERTS	-	0.019	-	0.014	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.7	-	0.6	-	1.3
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	-	< 2.0	-	< 2.0	-
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	-	< 5.0	-	< 5.0	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.07
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.25
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.23
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.16
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	0.3
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	0.07
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.2
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.13
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	0.11

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	-	1.54
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Analytical Report Number: 25-024807
Project / Site name: Bedhampton Phase 2
Your Order No: PO-8658

Lab Sample Number	545794	545795	545796	545797	545798
Sample Reference	WS201	WS201	WS202	WS202	WS203
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.6	2.9	0.3	2.4	0.15
Date Sampled	12/05/2025	12/05/2025	12/05/2025	12/05/2025	12/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.3	-	13	-	9.2
Barium (aqua regia extractable)	mg/kg	1	MCERTS	45	-	91	-	51
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.63	-	1.6	-	0.64
Boron (water soluble)	mg/kg	0.2	MCERTS	0.6	-	0.7	-	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	-	0.5	-	0.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	-	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	-	44	-	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	-	14	-	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	-	15	-	33
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	-	39	-	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	1.1	-	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	36	-	67	-	35
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	50	-	71	-	58
Magnesium (leachate equivalent)	mg/l	2.5	NONE	-	4.5	-	3.9	-
Magnesium (water soluble)	mg/kg	5	NONE	-	9	-	7.7	-

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	< 8.4
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	< 0.010	-	< 0.010	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	< 0.020	-	< 0.020	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	< 8.4	-	< 8.4	-	< 8.4
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	-	< 10	-	< 10
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	< 10	-	< 10	-	< 10

Analytical Report Number: 25-024807
 Project / Site name: Bedhampton Phase 2
 Your Order No: PO-8658

Lab Sample Number	545794	545795	545796	545797	545798
Sample Reference	WS201	WS201	WS202	WS202	WS203
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A	N/A	N/A
Depth (m)	0.6	2.9	0.3	2.4	0.15
Date Sampled	12/05/2025	12/05/2025	12/05/2025	12/05/2025	12/05/2025
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Benzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Toluene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	< 8.0	-	< 8.0	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	< 5.0	-	< 5.0	-	< 5.0

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

Analytical Report Number: 25-024807
Project / Site name: Bedhampton Phase 2
Your Order No: PO-8658

Lab Sample Number	545799	545800	545801
Sample Reference	WS203	WS204	WS205
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	2	1.5	3.5
Date Sampled	12/05/2025	12/05/2025	12/05/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	13	22
Total mass of sample received	kg	0.1	NONE	0.6	0.6	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	-	-	-
Analysis completed	N/A	N/A	N/A	-	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	8.3	8.3
Total Cyanide	mg/kg	1	MCERTS	-	-	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	-	-
Total Sulphate as SO ₄	%	0.005	MCERTS	0.012	0.012	0.044
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	11	11	17
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.3	5.27	8.69
Sulphide	mg/kg	1	MCERTS	-	-	-
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	-	-	-
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	1	1.6	2.3
Elemental Sulphur	mg/kg	5	MCERTS	-	-	-
Total Sulphur	mg/kg	50	MCERTS	< 50	< 50	140
Total Sulphur	%	0.005	MCERTS	< 0.005	< 0.005	0.014
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-
Water Soluble Nitrate (2:1) as NO ₃	mg/kg	2	NONE	< 2.0	< 2.0	< 2.0
Water Soluble Nitrate (2:1) as NO ₃ (leachate equivalent)	mg/l	5	NONE	< 5.0	< 5.0	< 5.0

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	-	-	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-
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Analytical Report Number: 25-024807
 Project / Site name: Bedhampton Phase 2
 Your Order No: PO-8658

Lab Sample Number	545799	545800	545801
Sample Reference	WS203	WS204	WS205
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	2	1.5	3.5
Date Sampled	12/05/2025	12/05/2025	12/05/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Barium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-
Magnesium (leachate equivalent)	mg/l	2.5	NONE	4.9	3	< 2.5
Magnesium (water soluble)	mg/kg	5	NONE	9.8	6	< 5.0

Petroleum Hydrocarbons

TPHCWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.01	MCERTS	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-
TPHCWG - Aliphatic >EC35 - EC44 _{EH_CU_1D_AL}	mg/kg	8.4	NONE	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-
TPHCWG - Aliphatic >EC5 - EC44 _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-
TPHCWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	-
TPHCWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.01	MCERTS	-	-	-
TPHCWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.02	MCERTS	-	-	-
TPHCWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-
TPHCWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-
TPHCWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-
TPHCWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-
TPHCWG - Aromatic >EC35 - EC44 _{EH_CU_1D_AR}	mg/kg	8.4	NONE	-	-	-
TPHCWG - Aromatic >EC5 - EC35 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-
TPHCWG - Aromatic >EC5 - EC44 _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-

Analytical Report Number: 25-024807
 Project / Site name: Bedhampton Phase 2
 Your Order No: PO-8658

Lab Sample Number	545799	545800	545801
Sample Reference	WS203	WS204	WS205
Sample Number	None Supplied	None Supplied	None Supplied
Water Matrix	N/A	N/A	N/A
Depth (m)	2	1.5	3.5
Date Sampled	12/05/2025	12/05/2025	12/05/2025
Time Taken	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status

VOCs

MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-

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

Analytical Report Number : 25-024807

Project / Site name: Bedhampton Phase 2

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
545794	WS201	None Supplied	0.6	Brown loam and clay with gravel and vegetation
545795	WS201	None Supplied	2.9	Brown clay and sand with gravel and vegetation
545796	WS202	None Supplied	0.3	Brown clay and loam with gravel and vegetation
545797	WS202	None Supplied	2.4	Beige clay and sand with chalk and vegetation
545798	WS203	None Supplied	0.15	Brown clay and loam with gravel and vegetation
545799	WS203	None Supplied	2	Brown clay and sand with gravel and vegetation
545800	WS204	None Supplied	1.5	Brown clay and sand with gravel and vegetation
545801	WS205	None Supplied	3.5	Brown clay and sand with gravel and chalk

Analytical Report Number : 25-024807
Project / Site name: Bedhampton Phase 2

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode	In-house method	L010-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Elemental sulphur in soil	Determination of elemental sulphur in soil by extraction in acetonitrile followed by HPLC	In-house method: Sample is extracted in acetonitrile prior to analysis by HPLC	L021B	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES	In-house method based on Second Site Properties version 3	L038B	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic	In-house method	L076B/L088-PL	D/W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS

Analytical Report Number : 25-024807
Project / Site name: Bedhampton Phase 2

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters Heating/Cooling (PrW) DI Process Water (DI PrW)
Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L080-PL	W	MCERTS
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser	In-house method	L082B	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES	In-house method based on TRL 447	L038B	D	NONE
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Water Soluble Nitrate (leachate equivalent)	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE
Nitrate, water soluble, in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry	In-house method based on Examination of Water and Wastewater & Polish Standard Method PN-82/C-04579.08, 2:1 extraction	L078-PL	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

APPENDIX D

HazWasteOnline Report



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)



49MEH-LRLLY-100LP

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

Report is invalid if pages are removed.

Job name

GE22571 Waste Soils Assessment

Description/Comments

Based on i2 Analytical Report Numbers: 25-024224-1 & 25-024807-1

Project

GE22571

Site

Bedhampton Phase 2

Classified by

Name: **Shaun Armitage**
 Date: **26 Jun 2025 09:13 GMT**
 Telephone: **07821448751**
 Company: **Geo-Environmental Services**
Unit 7, Danworth Farm, Cuckfield Rd
Hurstpierpoint
BN6 9GL

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

HazWasteOnline™ Certification:

CERTIFIED

Course
 Hazardous Waste Classification
 Most recent 3 year Refresher

Date
 09 Jun 2022
 03 Jun 2025

Next 3 year Refresher due by Jun 2028

Purpose of classification

2 - Material Characterisation

Address of the waste

Phase 2 Development, Manor Farm, Lower Road, Bedhampton, Hampshire

Post Code **PO9 3LJ**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Construction of houses, private gardens, access roads and associated infrastructure

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

Excavations for the above construction

Description of the waste

Topsoil, cohesive River Terrace Deposits, chalk

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS201--12052025-0.60	0.60	Non Hazardous		3
2	WS202--12052025-0.30	0.30	Non Hazardous		6
3	WS203--12052025-0.15	0.15	Non Hazardous		9
4	TP202--08052025-0.30	0.30	Non Hazardous		12
5	TP203--08052025-0.20	0.20	Non Hazardous		15
6	TP205--08052025-0.40	0.40	Non Hazardous		18
7	TP206--08052025-0.15	0.15	Non Hazardous		21
8	TP208--08052025-0.20	0.20	Non Hazardous		24
9	TP211--09052025-0.30	0.30	Non Hazardous		27
10	TP212--09052025-0.30	0.30	Non Hazardous		30
11	TP214--09052025-0.25	0.25	Non Hazardous		33
12	TP216--09052025-0.80	0.80	Non Hazardous		36

Related documents

#	Name	Description
1	25-024224_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
2	25-024807_batch.batch	i2 Analytical .batch file used to populate the Job
3	25-024807_HWOL.hwol	i2 Analytical .hwol file used to populate the Job
4	GESL Soils Waste Stream Template	waste stream template used to create this Job

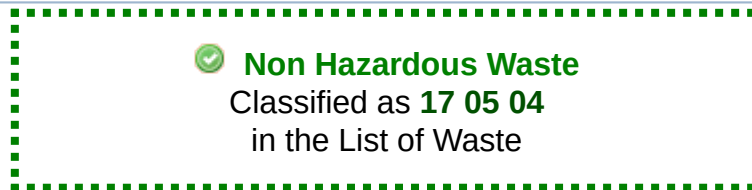
Report

Created by: Shaun Armitage

Created date: 26 Jun 2025 09:13 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	39
Appendix B: Rationale for selection of metal species	40
Appendix C: Version	41

Classification of sample: WS201--12052025-0.60


Sample details

Sample name:	LoW Code:
WS201--12052025-0.60	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.60 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

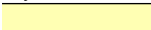
Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.3 mg/kg	1.32	8.385 mg/kg	0.000839 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	barium { barium diboron tetraoxide }				45 mg/kg	1.623	63.559 mg/kg	0.00636 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
3	beryllium { beryllium oxide }				0.63 mg/kg	2.775	1.521 mg/kg	0.000152 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide }				0.6 mg/kg	3.22	1.681 mg/kg	0.000168 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.298 mg/kg	0.0000298 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
8	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	11.754 mg/kg	0.00118 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead chromate }			1	13 mg/kg	1.56	17.642 mg/kg	0.00113 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
11	nickel { nickel chromate }				13 mg/kg	2.976	33.662 mg/kg	0.00337 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	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							
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				36 mg/kg	1.785	55.912 mg/kg	0.00559 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
14	zinc { zinc chromate }				50 mg/kg	2.774	120.675 mg/kg	0.0121 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.0342 %		

Key

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

Classification of sample: WS202--12052025-0.30

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

Sample details

Sample name:	LoW Code:
WS202--12052025-0.30	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

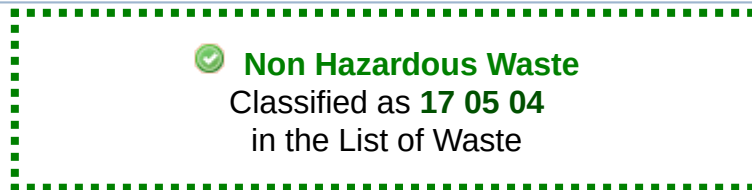
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				13 mg/kg	1.32	14.933 mg/kg	0.00149 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	barium { barium diboron tetraoxide }				91 mg/kg	1.623	128.53 mg/kg	0.0129 %	✓		
	056-005-00-3	237-222-4	13701-59-2								
3	beryllium { beryllium oxide }				1.6 mg/kg	2.775	3.863 mg/kg	0.000386 %	✓		
	004-003-00-8	215-133-1	1304-56-9								
4	boron { diboron trioxide }				0.7 mg/kg	3.22	1.961 mg/kg	0.000196 %	✓		
	005-008-00-8	215-125-8	1303-86-2								
5	cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.497 mg/kg	0.0000497 %	✓		
	048-002-00-0	215-146-2	1306-19-0								
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				44 mg/kg	1.462	64.308 mg/kg	0.00643 %			
		215-160-9	1308-38-9								
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %			<LOD
	024-017-00-8										
8	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	13.713 mg/kg	0.00137 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
9	lead { lead chromate }			1	15 mg/kg	1.56	20.356 mg/kg	0.00131 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
11	nickel { nickel chromate }				39 mg/kg	2.976	100.985 mg/kg	0.0101 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				1.1 mg/kg	2.554	2.444 mg/kg	0.000244 %	✓		
	028-031-00-5	239-125-2	15060-62-5								
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				67 mg/kg	1.785	104.058 mg/kg	0.0104 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
14	zinc { zinc chromate }				71 mg/kg	2.774	171.359 mg/kg	0.0171 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
			TPH								

#		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		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<LOD
		601-022-00-9	202-422-2 [1]	95-47-6 [1]									
			203-396-5 [2]	106-42-3 [2]									
			203-576-3 [3]	108-38-3 [3]									
			215-535-7 [4]	1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
22		pH				8	pH		8	pH	8pH		
				PH									
23		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-469-6	83-32-9									
26		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
27		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2									
39		sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD
		016-013-00-X	234-129-0	10545-99-0									
40		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
Total:												0.062 %	

Key

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

Classification of sample: WS203--12052025-0.15


Sample details

Sample name:	LoW Code:
WS203--12052025-0.15	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.4%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.4% Wet Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				9.2 mg/kg	1.32	11.127 mg/kg	0.00111 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		barium { barium diboron tetraoxide }				51 mg/kg	1.623	75.842 mg/kg	0.00758 %	✓	
		056-005-00-3	237-222-4	13701-59-2							
3		beryllium { beryllium oxide }				0.64 mg/kg	2.775	1.627 mg/kg	0.000163 %	✓	
		004-003-00-8	215-133-1	1304-56-9							
4		boron { diboron trioxide }				0.9 mg/kg	3.22	2.654 mg/kg	0.000265 %	✓	
		005-008-00-8	215-125-8	1303-86-2							
5		cadmium { cadmium oxide }				0.5 mg/kg	1.142	0.523 mg/kg	0.0000523 %	✓	
		048-002-00-0	215-146-2	1306-19-0							
6		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
			215-160-9	1308-38-9							
7		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
		024-017-00-8									
8		copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	18.564 mg/kg	0.00186 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
9		lead { lead chromate }			1	33 mg/kg	1.56	47.15 mg/kg	0.00302 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
10		mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7							
11		nickel { nickel chromate }				14 mg/kg	2.976	38.168 mg/kg	0.00382 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
12		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							
13		vanadium { divanadium pentaoxide; vanadium pentoxide }				35 mg/kg	1.785	57.233 mg/kg	0.00572 %	✓	
		023-001-00-8	215-239-8	1314-62-1							
14		zinc { zinc chromate }				58 mg/kg	2.774	147.385 mg/kg	0.0147 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
15		TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
				TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				7.9 pH		7.9 pH	7.9 pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				0.07 mg/kg		0.0641 mg/kg	0.00000641 %	✓		
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				0.25 mg/kg		0.229 mg/kg	0.0000229 %	✓		
		205-912-4	206-44-0								
30	pyrene				0.23 mg/kg		0.211 mg/kg	0.0000211 %	✓		
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				0.16 mg/kg		0.147 mg/kg	0.0000147 %	✓		
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				0.3 mg/kg		0.275 mg/kg	0.0000275 %	✓		
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				0.07 mg/kg		0.0641 mg/kg	0.00000641 %	✓		
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				0.2 mg/kg		0.183 mg/kg	0.0000183 %	✓		
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				0.13 mg/kg		0.119 mg/kg	0.0000119 %	✓		
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				0.11 mg/kg		0.101 mg/kg	0.0000101 %	✓		
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.0418 %		

Key

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

Classification of sample: TP202--08052025-0.30

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

Sample details

Sample name:	LoW Code:
TP202--08052025-0.30	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				9 mg/kg	1.32	10.1 mg/kg	0.00101 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	barium { barium diboron tetraoxide }				48 mg/kg	1.623	66.238 mg/kg	0.00662 %	✓		
	056-005-00-3	237-222-4	13701-59-2								
3	beryllium { beryllium oxide }				0.86 mg/kg	2.775	2.029 mg/kg	0.000203 %	✓		
	004-003-00-8	215-133-1	1304-56-9								
4	boron { diboron trioxide }				0.8 mg/kg	3.22	2.19 mg/kg	0.000219 %	✓		
	005-008-00-8	215-125-8	1303-86-2								
5	cadmium { cadmium oxide }				0.7 mg/kg	1.142	0.68 mg/kg	0.000068 %	✓		
	048-002-00-0	215-146-2	1306-19-0								
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				26 mg/kg	1.462	38 mg/kg	0.0038 %			
		215-160-9	1308-38-9								
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %			<LOD
	024-017-00-8										
8	copper { dicopper oxide; copper (I) oxide }				10 mg/kg	1.126	9.57 mg/kg	0.000957 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
9	lead { lead chromate }			1	11 mg/kg	1.56	14.584 mg/kg	0.000935 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
11	nickel { nickel chromate }				19 mg/kg	2.976	48.067 mg/kg	0.00481 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				1.3 mg/kg	2.554	2.822 mg/kg	0.000282 %	✓		
	028-031-00-5	239-125-2	15060-62-5								
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				41 mg/kg	1.785	62.214 mg/kg	0.00622 %	✓		
	023-001-00-8	215-239-8	1314-62-1								
14	zinc { zinc chromate }				44 mg/kg	2.774	103.753 mg/kg	0.0104 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %			<LOD
			TPH								

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				8 pH		8 pH	8pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.0355 %		

Key

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

Classification of sample: TP203--08052025-0.20

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

Sample details

Sample name:	LoW Code:
TP203--08052025-0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(wet weight correction)	

Hazard properties

None identified

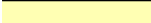
Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8.1 mg/kg	1.32	9.411 mg/kg	0.000941 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	barium { barium diboron tetraoxide }				50 mg/kg	1.623	71.433 mg/kg	0.00714 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
3	beryllium { beryllium oxide }				0.64 mg/kg	2.775	1.563 mg/kg	0.000156 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide }				0.9 mg/kg	3.22	2.55 mg/kg	0.000255 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.302 mg/kg	0.0000302 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
8	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	11.889 mg/kg	0.00119 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead chromate }			1	17 mg/kg	1.56	23.335 mg/kg	0.0015 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
11	nickel { nickel chromate }				14 mg/kg	2.976	36.668 mg/kg	0.00367 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	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							
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				37 mg/kg	1.785	58.126 mg/kg	0.00581 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
14	zinc { zinc chromate }				49 mg/kg	2.774	119.621 mg/kg	0.012 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				7.8 pH		7.8 pH	7.8 pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.036 %		

Key

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

Classification of sample: TP205--08052025-0.40

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

Sample details

Sample name:	LoW Code:
TP205--08052025-0.40	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

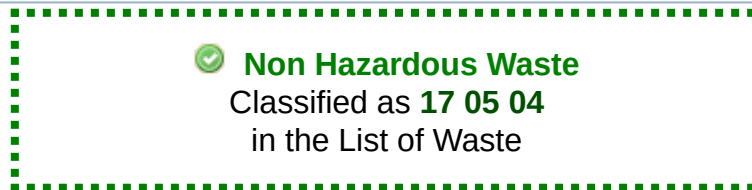
#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used	
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }			9.7	mg/kg	1.32	11.014	mg/kg	0.0011 %	✓	
		033-003-00-0	215-481-4	1327-53-3								
2		barium { barium diboron tetraoxide }			51	mg/kg	1.623	71.206	mg/kg	0.00712 %	✓	
		056-005-00-3	237-222-4	13701-59-2								
3		beryllium { beryllium oxide }			0.83	mg/kg	2.775	1.981	mg/kg	0.000198 %	✓	
		004-003-00-8	215-133-1	1304-56-9								
4		boron { diboron trioxide }			1	mg/kg	3.22	2.769	mg/kg	0.000277 %	✓	
		005-008-00-8	215-125-8	1303-86-2								
5		cadmium { cadmium oxide }			<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
		048-002-00-0	215-146-2	1306-19-0								
6		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }			29	mg/kg	1.462	42.385	mg/kg	0.00424 %		
			215-160-9	1308-38-9								
7		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }			<1.8	mg/kg	2.27	<4.086	mg/kg	<0.000409 %		<LOD
		024-017-00-8										
8		copper { dicopper oxide; copper (I) oxide }			9.5	mg/kg	1.126	9.199	mg/kg	0.00092 %	✓	
		029-002-00-X	215-270-7	1317-39-1								
9		lead { lead chromate }		1	13	mg/kg	1.56	17.439	mg/kg	0.00112 %	✓	
		082-004-00-2	231-846-0	7758-97-6								
10		mercury { mercury dichloride }			<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7								
11		nickel { nickel chromate }			17	mg/kg	2.976	43.513	mg/kg	0.00435 %	✓	
		028-035-00-7	238-766-5	14721-18-7								
12		selenium { nickel selenate }			1.6	mg/kg	2.554	3.514	mg/kg	0.000351 %	✓	
		028-031-00-5	239-125-2	15060-62-5								
13		vanadium { divanadium pentaoxide; vanadium pentoxide }			48	mg/kg	1.785	73.692	mg/kg	0.00737 %	✓	
		023-001-00-8	215-239-8	1314-62-1								
14		zinc { zinc chromate }			50	mg/kg	2.774	119.288	mg/kg	0.0119 %	✓	
		024-007-00-3	236-878-9	13530-65-9								
15		TPH (C6 to C40) petroleum group			<20	mg/kg		<20	mg/kg	<0.002 %		<LOD
				TPH								

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				7.8 pH		7.8 pH	7.8 pH			
			P1186								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.039 %		

Key

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

Classification of sample: TP206--08052025-0.15


Sample details

Sample name:	LoW Code:
TP206--08052025-0.15	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.7 mg/kg	1.32	8.845 mg/kg	0.000884 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	barium { barium diboron tetraoxide }				47 mg/kg	1.623	66.384 mg/kg	0.00664 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
3	beryllium { beryllium oxide }				0.66 mg/kg	2.775	1.594 mg/kg	0.000159 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide }				0.7 mg/kg	3.22	1.961 mg/kg	0.000196 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.199 mg/kg	0.0000199 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				24 mg/kg	1.462	35.077 mg/kg	0.00351 %		
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
8	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	11.754 mg/kg	0.00118 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead chromate }			1	13 mg/kg	1.56	17.642 mg/kg	0.00113 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
11	nickel { nickel chromate }				13 mg/kg	2.976	33.662 mg/kg	0.00337 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				1 mg/kg	2.554	2.222 mg/kg	0.000222 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				38 mg/kg	1.785	59.018 mg/kg	0.0059 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
14	zinc { zinc chromate }				48 mg/kg	2.774	115.848 mg/kg	0.0116 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.0348 %		

Key

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

Classification of sample: TP208--08052025-0.20

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

Sample details

Sample name:	LoW Code:
TP208--08052025-0.20	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

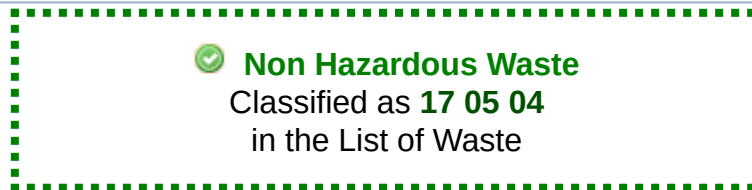
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.4 mg/kg	1.32	8.5 mg/kg	0.00085 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	barium { barium diboron tetraoxide }				55 mg/kg	1.623	77.683 mg/kg	0.00777 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
3	beryllium { beryllium oxide }				0.71 mg/kg	2.775	1.714 mg/kg	0.000171 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide }				0.8 mg/kg	3.22	2.241 mg/kg	0.000224 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.298 mg/kg	0.0000298 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
8	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	11.754 mg/kg	0.00118 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead chromate }			1	14 mg/kg	1.56	18.999 mg/kg	0.00122 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
11	nickel { nickel chromate }				14 mg/kg	2.976	36.251 mg/kg	0.00363 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	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							
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				39 mg/kg	1.785	60.571 mg/kg	0.00606 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
14	zinc { zinc chromate }				55 mg/kg	2.774	132.743 mg/kg	0.0133 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<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]							
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
22	pH				7.5 pH		7.5 pH	7.5 pH		
			P1186							
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %		<LOD
	016-013-00-X	234-129-0	10545-99-0							
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
Total:								0.038 %		

Key

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

Classification of sample: TP211--09052025-0.30


Sample details

Sample name:	LoW Code:
TP211--09052025-0.30	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				11 mg/kg	1.32	12.49 mg/kg	0.00125 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		barium { barium diboron tetraoxide }				56 mg/kg	1.623	78.186 mg/kg	0.00782 %	✓		
		056-005-00-3	237-222-4	13701-59-2								
3		beryllium { beryllium oxide }				0.92 mg/kg	2.775	2.196 mg/kg	0.00022 %	✓		
		004-003-00-8	215-133-1	1304-56-9								
4		boron { diboron trioxide }				1 mg/kg	3.22	2.769 mg/kg	0.000277 %	✓		
		005-008-00-8	215-125-8	1303-86-2								
5		cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.295 mg/kg	0.0000295 %	✓		
		048-002-00-0	215-146-2	1306-19-0								
6		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				34 mg/kg	1.462	49.693 mg/kg	0.00497 %			
			215-160-9	1308-38-9								
7		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD	
		024-017-00-8										
8		copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	15.492 mg/kg	0.00155 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
9		lead { lead chromate }			1	16 mg/kg	1.56	21.463 mg/kg	0.00138 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
10		mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD	
		080-010-00-X	231-299-8	7487-94-7								
11		nickel { nickel chromate }				20 mg/kg	2.976	51.192 mg/kg	0.00512 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
12		selenium { nickel selenate }				1.1 mg/kg	2.554	2.416 mg/kg	0.000242 %	✓		
		028-031-00-5	239-125-2	15060-62-5								
13		vanadium { divanadium pentaoxide; vanadium pentoxide }				54 mg/kg	1.785	82.904 mg/kg	0.00829 %	✓		
		023-001-00-8	215-239-8	1314-62-1								
14		zinc { zinc chromate }				57 mg/kg	2.774	135.989 mg/kg	0.0136 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
15		TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD	
				TPH								

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD	
	603-181-00-X	216-653-1	1634-04-4										
17	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD	
	601-020-00-8	200-753-7	71-43-2										
18	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD	
	601-021-00-3	203-625-9	108-88-3										
19	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD	
	601-023-00-4	202-849-4	100-41-4										
20	xylene				<0.013	mg/kg		<0.013	mg/kg	<0.0000013 %		<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]										
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD	
	006-007-00-5												
22	pH				7.3	pH		7.3	pH	7.3 pH			
			PH										
23	naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-052-00-2	202-049-5	91-20-3										
24	acenaphthylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		205-917-1	208-96-8										
25	acenaphthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		201-469-6	83-32-9										
26	fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		201-695-5	86-73-7										
27	phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		201-581-5	85-01-8										
28	anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		204-371-1	120-12-7										
29	fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		205-912-4	206-44-0										
30	pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		204-927-3	129-00-0										
31	benzo[a]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-033-00-9	200-280-6	56-55-3										
32	chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-048-00-0	205-923-4	218-01-9										
33	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-034-00-4	205-911-9	205-99-2										
34	benzo[k]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-036-00-5	205-916-6	207-08-9										
35	benzo[a]pyrene; benzo[def]chrysene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-032-00-3	200-028-5	50-32-8										
36	indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		205-893-2	193-39-5										
37	dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
	601-041-00-2	200-181-8	53-70-3										
38	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD	
		205-883-8	191-24-2										
39	sulfur { sulphur dichloride }				<5	mg/kg	3.211	<16.057	mg/kg	<0.00161 %		<LOD	
	016-013-00-X	234-129-0	10545-99-0										
40	monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD	
			P1186										
Total:											0.0447 %		

Key

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

Classification of sample: TP212--09052025-0.30

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

Sample details

Sample name:	LoW Code:
TP212--09052025-0.30	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

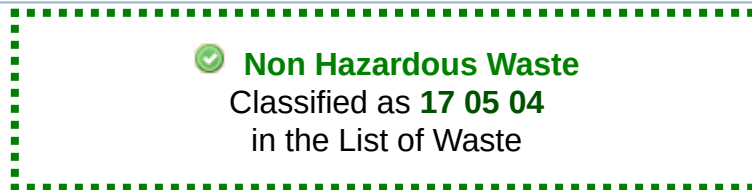
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				7.2 mg/kg	1.32	8.271 mg/kg	0.000827 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	barium { barium diboron tetraoxide }				52 mg/kg	1.623	73.446 mg/kg	0.00734 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
3	beryllium { beryllium oxide }				0.62 mg/kg	2.775	1.497 mg/kg	0.00015 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide }				0.7 mg/kg	3.22	1.961 mg/kg	0.000196 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.298 mg/kg	0.0000298 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
8	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	13.713 mg/kg	0.00137 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead chromate }			1	13 mg/kg	1.56	17.642 mg/kg	0.00113 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
11	nickel { nickel chromate }				13 mg/kg	2.976	33.662 mg/kg	0.00337 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	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							
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				35 mg/kg	1.785	54.359 mg/kg	0.00544 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
14	zinc { zinc chromate }				51 mg/kg	2.774	123.089 mg/kg	0.0123 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<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]							
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
22	pH				7.6 pH		7.6 pH	7.6 pH		
			P1186							
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-581-5	85-01-8							
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-912-4	206-44-0							
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-927-3	129-00-0							
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %		<LOD
	016-013-00-X	234-129-0	10545-99-0							
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
Total:								0.0354 %		

Key

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

Classification of sample: TP214--09052025-0.25


Sample details

Sample name:	LoW Code:
TP214--09052025-0.25	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.25 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				8.6 mg/kg	1.32	10.106 mg/kg	0.00101 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		barium { barium diboron tetraoxide }				52 mg/kg	1.623	75.134 mg/kg	0.00751 %	✓	
		056-005-00-3	237-222-4	13701-59-2							
3		beryllium { beryllium oxide }				0.72 mg/kg	2.775	1.778 mg/kg	0.000178 %	✓	
		004-003-00-8	215-133-1	1304-56-9							
4		boron { diboron trioxide }				0.7 mg/kg	3.22	2.006 mg/kg	0.000201 %	✓	
		005-008-00-8	215-125-8	1303-86-2							
5		cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.305 mg/kg	0.0000305 %	✓	
		048-002-00-0	215-146-2	1306-19-0							
6		chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
			215-160-9	1308-38-9							
7		chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
		024-017-00-8									
8		copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	12.024 mg/kg	0.0012 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
9		lead { lead chromate }			1	16 mg/kg	1.56	22.212 mg/kg	0.00142 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
10		mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7							
11		nickel { nickel chromate }				16 mg/kg	2.976	42.382 mg/kg	0.00424 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
12		selenium { nickel selenate }				1.2 mg/kg	2.554	2.727 mg/kg	0.000273 %	✓	
		028-031-00-5	239-125-2	15060-62-5							
13		vanadium { divanadium pentaoxide; vanadium pentoxide }				39 mg/kg	1.785	61.964 mg/kg	0.0062 %	✓	
		023-001-00-8	215-239-8	1314-62-1							
14		zinc { zinc chromate }				50 mg/kg	2.774	123.45 mg/kg	0.0123 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
15		TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
				TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %			<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]								
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
22	pH				7.7 pH		7.7 pH	7.7 pH			
			PH								
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-917-1	208-96-8								
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-469-6	83-32-9								
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-695-5	86-73-7								
27	phenanthrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		201-581-5	85-01-8								
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-371-1	120-12-7								
29	fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-912-4	206-44-0								
30	pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		204-927-3	129-00-0								
31	benzo[a]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
32	chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
33	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
34	benzo[k]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
35	benzo[a]pyrene; benzo[def]chrysene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
36	indeno[123-cd]pyrene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
		205-883-8	191-24-2								
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %			<LOD
	016-013-00-X	234-129-0	10545-99-0								
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
			P1186								
Total:									0.0383 %		

Key

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

Classification of sample: TP216--09052025-0.80

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

Sample details

Sample name:	LoW Code:
TP216--09052025-0.80	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.80 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				6.8 mg/kg	1.32	7.811 mg/kg	0.000781 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	barium { barium diboron tetraoxide }				55 mg/kg	1.623	77.683 mg/kg	0.00777 %	✓	
	056-005-00-3	237-222-4	13701-59-2							
3	beryllium { beryllium oxide }				0.64 mg/kg	2.775	1.545 mg/kg	0.000155 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide }				0.5 mg/kg	3.22	1.401 mg/kg	0.00014 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.199 mg/kg	0.0000199 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in Cr(III) compounds { chromium(III) oxide (worst case) }				21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
		215-160-9	1308-38-9							
7	chromium in Cr(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<1.8 mg/kg	2.27	<4.086 mg/kg	<0.000409 %		<LOD
	024-017-00-8									
8	copper { dicopper oxide; copper (I) oxide }				10 mg/kg	1.126	9.795 mg/kg	0.00098 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead chromate }			1	13 mg/kg	1.56	17.642 mg/kg	0.00113 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
10	mercury { mercury dichloride }				<0.3 mg/kg	1.353	<0.406 mg/kg	<0.0000406 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
11	nickel { nickel chromate }				12 mg/kg	2.976	31.072 mg/kg	0.00311 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				1.2 mg/kg	2.554	2.666 mg/kg	0.000267 %	✓	
	028-031-00-5	239-125-2	15060-62-5							
13	vanadium { divanadium pentaoxide; vanadium pentoxide }				35 mg/kg	1.785	54.359 mg/kg	0.00544 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
14	zinc { zinc chromate }				54 mg/kg	2.774	130.329 mg/kg	0.013 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
15	TPH (C6 to C40) petroleum group				<20 mg/kg		<20 mg/kg	<0.002 %		<LOD
			TPH							

#	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	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
17	benzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
18	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
19	ethylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
20	xylene				<0.013 mg/kg		<0.013 mg/kg	<0.0000013 %		<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]							
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
22	pH				7.7 pH		7.7 pH	7.7 pH		
			PH							
23	naphthalene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-469-6	83-32-9							
26	fluorene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		201-695-5	86-73-7							
27	phenanthrene				0.08 mg/kg		0.0696 mg/kg	0.00000696 %	✓	
		201-581-5	85-01-8							
28	anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		204-371-1	120-12-7							
29	fluoranthene				0.56 mg/kg		0.487 mg/kg	0.0000487 %	✓	
		205-912-4	206-44-0							
30	pyrene				0.69 mg/kg		0.6 mg/kg	0.00006 %	✓	
		204-927-3	129-00-0							
31	benzo[a]anthracene				0.51 mg/kg		0.444 mg/kg	0.0000444 %	✓	
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				0.58 mg/kg		0.505 mg/kg	0.0000505 %	✓	
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				0.7 mg/kg		0.609 mg/kg	0.0000609 %	✓	
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				0.31 mg/kg		0.27 mg/kg	0.000027 %	✓	
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				0.68 mg/kg		0.592 mg/kg	0.0000592 %	✓	
	601-032-00-3	200-028-5	50-32-8							
36	indeno[123-cd]pyrene				0.33 mg/kg		0.287 mg/kg	0.0000287 %	✓	
		205-893-2	193-39-5							
37	dibenz[a,h]anthracene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
38	benzo[ghi]perylene				0.34 mg/kg		0.296 mg/kg	0.0000296 %	✓	
		205-883-8	191-24-2							
39	sulfur { sulphur dichloride }				<5 mg/kg	3.211	<16.057 mg/kg	<0.00161 %		<LOD
	016-013-00-X	234-129-0	10545-99-0							
40	monohydric phenols				<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
			P1186							
Total:								0.0363 %		

Key

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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

Description/Comments: Unknown Oil

Hazard statements taken from WM3 1st Edition 2015

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

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

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

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

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

Reason for additional Hazards Statement(s):

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

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **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

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

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
 Data source: CLP combined data
 Data source date: 26 Mar 2019
 Hazard Statements: Muta. 2; H341, Acute Tox. 3; H331, Acute Tox. 3; H311, Acute Tox. 3; H301, STOT RE 2; H373, Skin Corr. 1B; H314, Skin Corr. 1B; H314 >= 3 %, Skin Irrit. 2; H315 1 <= conc. < 3 %, Eye Irrit. 2; H319 1 <= conc. < 3 %, Aquatic Chronic 2; H411

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

barium {barium diboron tetraoxide}

There isn't enough barium and Cr(VI) to make barium chromate; next worst case species selected

beryllium {beryllium oxide}

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

boron {diboron trioxide}

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

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. 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

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

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass

chromium in Cr(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

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. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species selected

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight

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

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide]

sulfur {sulphur dichloride}

Worst case species selected

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2025.175.6676.12133 (24 Jun 2025)

HazWasteOnline Database: 2025.175.6676.12133 (24 Jun 2025)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

GB MCL List - version 1.1 of 09 June 2021

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

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

GB MCL List v6.0 - version 6.0 of 15th February 2025